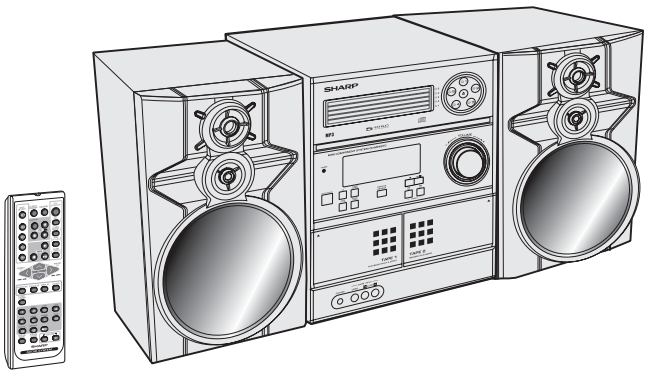
# SHARP SERVICE MANUAL

No. S6623CDMPX870



## MINI COMPONENT SYSTEM

## MODEL CD-MPX870

**CD-MPX870 Mini Component System consisting of CD-MPX870 (main unit) and CP-MPX870 (speaker system).**

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

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**Parts Guide**


Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

# PRECAUTIONS FOR USING LEAD-FREE SOLDER

**1. Employing lead-free solder**

"MAIN, DISPLAY, POWER, JACK, CD SERVO, CD MOTOR (PWB ONLY), CD CHANGER MOTOR (PWB ONLY), LED PWB" of this model employs lead-free solder.
The LF symbol indicates lead-free solder, and is attached on the PWB and service manuals. The alphabetical character following LF shows the type of lead-free solder.

Example:

Indicates lead-free solder of tin, silver and copper.

**2. Using lead-free wire solder**

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.
As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40 °C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

**3. Soldering**

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220 °C which is higher than the conventional lead solder by 40 °C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.
Lead-free solder contains more tin, and the end of the soldering bit may be easily corrected. Make sure to turn on and off the power of the bit as required.
If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.
When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

Be careful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

| Ref No. | Parts No. | Description |
|---|---|---|
| PWB-A | 92LPWB6572MANS | MAIN (A1), POWER (A2) |
| PWB-B | 92LPWB6572DPLS | DISPLAY (B1), GAME INPUT (B2) |
| PWB-C | 92LPWB6514CDUS | CD SERVO |
| PWB-D | 92LPWB6274LEDS | LED |
| PWB-E | QPWBF0027AWZZ | CD MOTOR (PWB ONLY) |
| PWB-F | QPWBF1055AWZZ | CD CHANGER MOTOR (PWB ONLY) |

# CHAPTER 1: GENERAL DESCRIPTION

## [1] Specifications

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

As part of our policy of continuous improvement, SHARP reserves the right to make design and specifcation changes for product improvement without prior notice. The performance specifcation figures indicated are nominal values of production units .There may be some deviations from these values in individual units.

### ■ General

| | |
|---|---|
| **Power source** | AC 120 V, 60 Hz |
| **Power consumption** | 135 W |
| **Dimensions** | Width: 10-1/4" (260 mm)<br>Height: 13" (330 mm)<br>Depth: 12-7/8" (323 mm) |
| **Weight** | 17.09 lbs. (7.75 kg) |

### ■ Amplifier

| | |
|---|---|
| **Output power** | MPO: 600 W (300 W + 300 W) (10% T.H.D.)<br>RMS: 300 W (150 W + 150 W) (10% T.H.D.)<br>RMS: 240 W (120 W + 120 W) (0.9% T.H.D.) |
| **Output terminals** | Speakers: 6 ohms<br>Headphones: 16 - 50 ohms<br>(recommended: 32 ohms)<br>Video output: 1Vp-p |
| **Input terminals** | Game/ Auxiliary (audio signal):<br>500 mV/ 47 k ohms<br>Game/Video: 1Vp-p |

### ■ CD player

| | |
|---|---|
| **Type** | 5-disc multi-play compact disc player |
| **Signal readout** | Non-contact, 3-beam semiconductor laser pickup |
| **D/A converter** | 1-bit D/A converter |
| **Frequency response** | 20 - 20,000 Hz |
| **Dynamic range** | 90 dB (1 kHz) |

### ■ Tuner

| | |
|---|---|
| **Frequency range** | FM: 87.5 - 108.0 MHz<br>AM: 530 - 1,720 kHz |

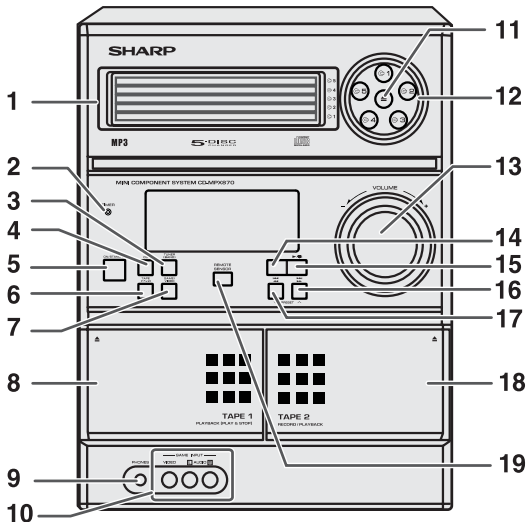
### ■ Cassette deck

| | |
|---|---|
| **Frequency response** | 50 - 14,000 Hz (normal tape) |
| **Signal/noise ratio** | 55 dB (TAPE 1, playback)<br>50 dB (TAPE 2, recording/playback) |
| **Wow and flutter** | 0.3 % (WRMS) |

### ■ Front Speaker

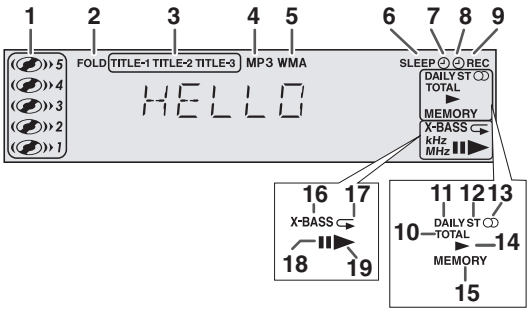
| | |
|---|---|
| **Type** | 3-way type speaker system<br>Super tweeter<br>2" (5 cm) tweeter<br>6-5/16" (16 cm) woofer |
| **Maximum input power** | 300 W |
| **Rated input power** | 150 W |
| **Impedance** | 6 ohms |
| **Dimensions** | Width: 7-7/8" (200 mm)<br>Height: 13" (330 mm)<br>Depth: 9-1/8" (231 mm) |
| **Weight** | 7.3 lbs. (3.3 kg) /each |

## [2] Names of parts



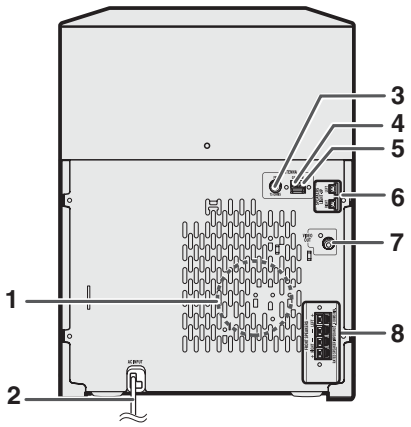

### ■ Front panel

1. Disc Trays
2. Timer Indicator
3. Tuner (Band) Button
4. CD Button
5. ON/STAND-BY Button
6. Tape (1 ⇀ 2) Button
7. Game/Video Button
8. Tape 1 Cassette Compartment
9. Headphone Jack
10. Game/Video Input Jacks
11. Disc Tray Open/Close Button
12. Disc Number Select Buttons
13. Volume Control
14. CD or Tape Stop Button
15. CD Play or Repeat, Tape Play Button
16. CD Track Up or Fast Forward, Tape 2 Fast Forward, Tuner Preset Up, Time Up Button
17. CD Track Down or Fast Reverse, Tape 2 Rewind, Tuner Preset Down, Time Down Button
18. Tape 2 Cassette Compartment
19. Remote Sensor



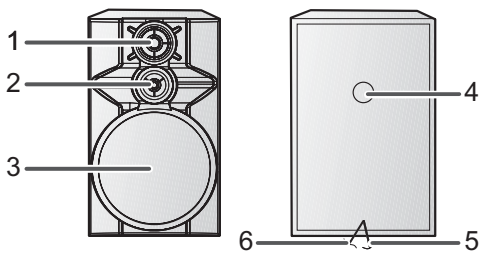

### ■ Display

1. Disc Number Indicators
2. MP3/WMA Folder Indicator
3. MP3/WMA Title Indicators
4. MP3 Indicator
5. WMA Indicator
6. Sleep Indicator
7. Timer Play Indicator
8. Timer Recording Indicator
9. Tape 2 Record Indicator
10. MP3/WMA Total Indicator
11. Daily Timer Indicator
12. FM Stereo Mode Indicator
13. FM Stereo Receiving Indicator
14. Tape Play Indicator
15. Memory Indicator
16. Extra Bass Indicator
17. Disc Repeat Play Indicator
18. Disc Pause Indicator
19. Disc Play Indicator



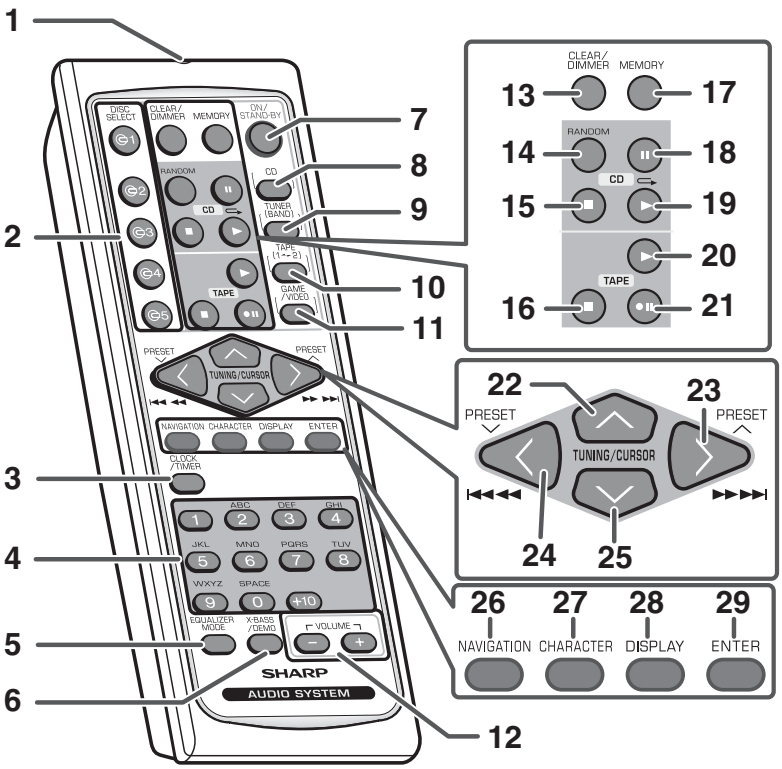

### ■ Rear panel

1. Cooling Fan
2. AC Power Cord
3. FM 75 Ohms Antenna Jack
4. AM Antenna Ground Terminal
5. AM Loop Antenna Terminal
6. Speaker Light-up Jacks
7. Video out Jack
8. Front Speaker Terminals




### ■ Speaker system

1. Tweeter
2. Super Tweeter
3. Woofer
4. Bass Reflex Duct
5. Speaker Wire
6. Speaker Light-Up Wire




## ■ Remote control

1. Remote Control Transmitter
2. Disc Number Select Buttons
3. Clock/Timer Button
4. Character Input/Disc Direct Search Buttons
5. Equalizer Mode Select Button
6. Extra Bass/Demo Button
7. ON/STAND-BY Button
8. CD Button
9. Tuner (Band) Button
10. Tape (1 ⇄ 2) Button
11. Game/Video Button
12. Volume Up and Down Buttons
13. Disc Clear/Dimmer Button
14. Disc Random Button
15. Disc Stop Button
16. Tape Stop Button
17. Memory Button
18. Disc Pause Button
19. Disc Play or Repeat Button
20. Tape Play Button
21. Tape 2 Record Pause Button
22. Tuning Up, Cursor Up Button
23. Disc Track Up or Fast Forward, Tape 2 Fast Forward, Tuner Preset Up, Time Up, Cursor Right Button
24. Disc Track Down or Fast Reverse, Tape 2 Rewind, Tuner Preset Down, Time Down, Cursor Left Button
25. Tuning Down, Cursor Down Button
26. MP3/WMA Navigation Mode Select Button
27. Character Button
28. MP3/WMA Display Button
29. Enter Button

# CHAPTER 2. ADJUSTMENTS

## [1] Mechanism section

- Driving Force Check

| Torque Meter | Specified Value |
|---|---|
| Play: TW-2111 | Tape 1: Over 80 g<br>Tape 2: Over 80 g |

- Torque Check

| Torque Meter | Specified Value | |
|---|---|---|
| | Tape 1 | Tape 2 |
| Play: TW-2111 | 30 to 80 g.cm | 30 to 80 g.cm |
| Fast forward: TW-2231 | — | 70 to 180 g.cm |
| | — | 70 to 180 g.cm |

- Tape Speed

| | Test Tape | Adjusting Point | Specified Value | Instrument Connection |
|---|---|---|---|---|
| Normal speed | MTT-111 | Variable Resistor in motor. | 3,000 ± 30 Hz Speaker | Speaker Terminal (Load resistance: 6 ohms) |

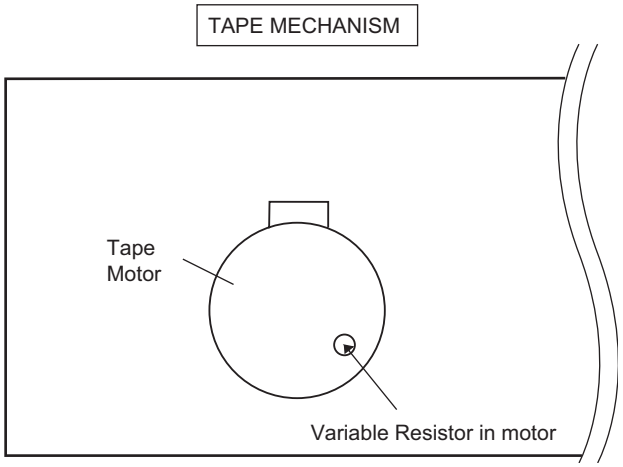
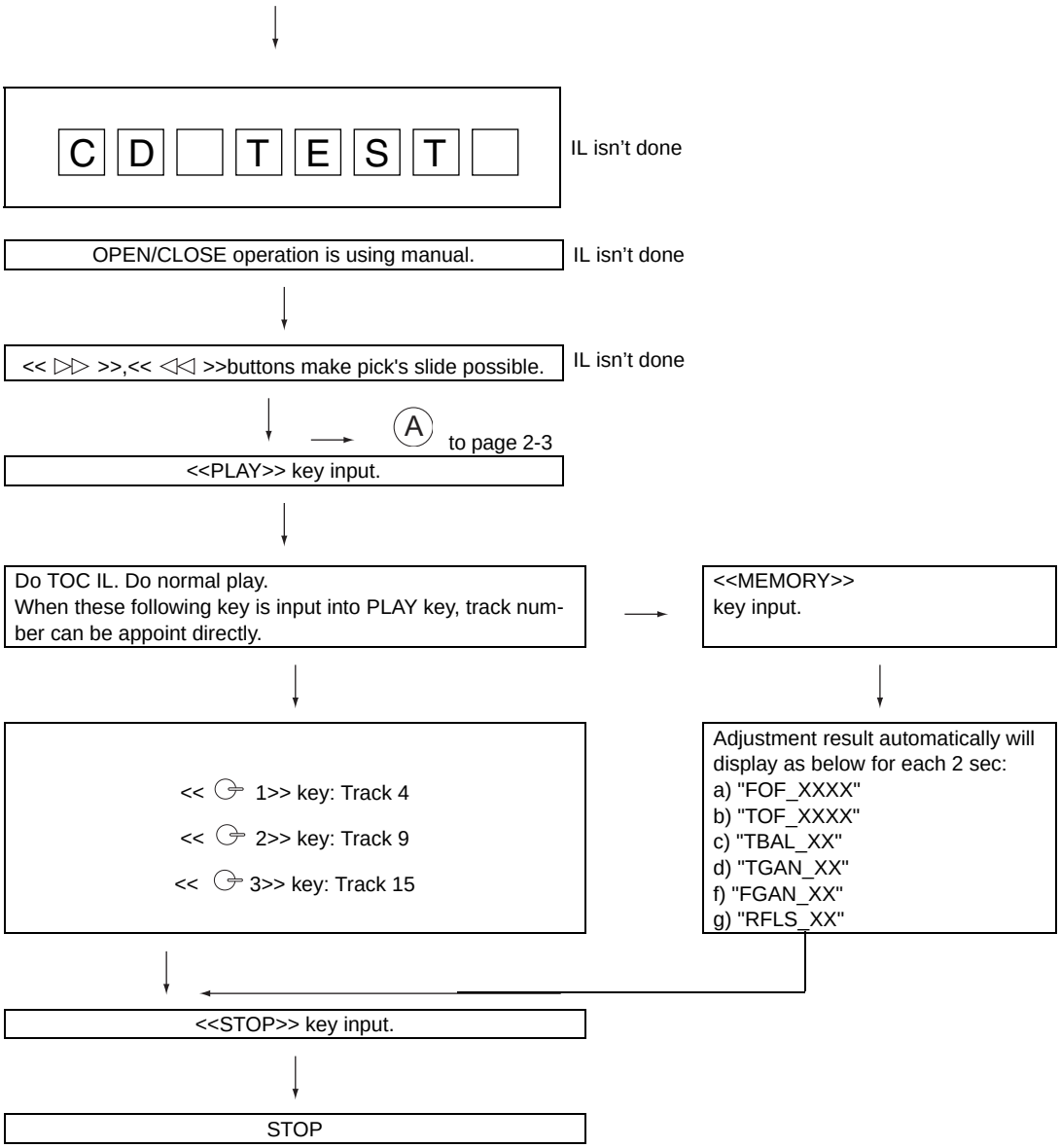



**Figure 1**

**[2] Test mode**

**• Setting the test mode**

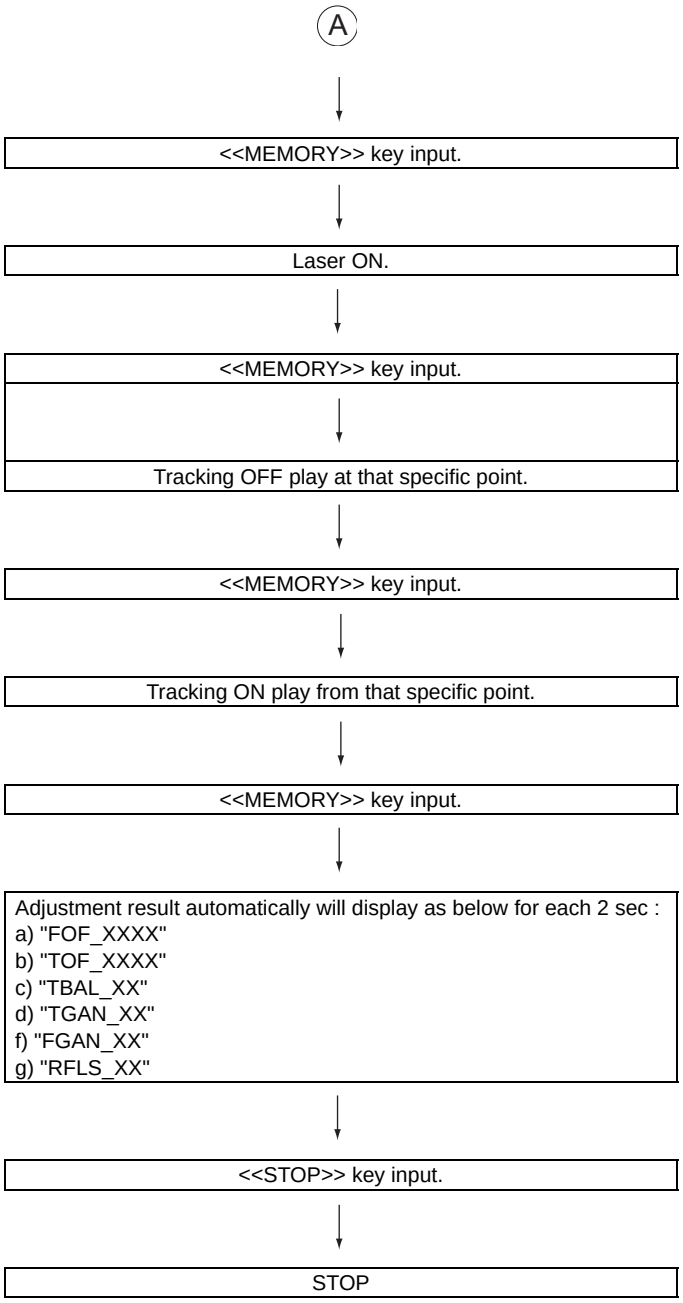
During stand-by mode, press GAME/VIDEO button while pressing down the ▲ button and ◀◀ I◀◀ button. then, press the CD button to enter the test mode.




explanation:

| | |
|---|---|
| a) Focus off set | = "FOF_XXXX" |
| b)Tracking off set | = "TOF_XXXX" |
| c)Tracking balance | = "TBAL_XX" |
| d)Tracking Gain | = "TGAN_XX" |
| f) Focus Gain | = "FGAN_XX" |
| g) RF level shift | = "RFLS_XX" |

VOL — Last memory
P.GEQ — FLAT
X-BASS — OFF
To cancel : Power OFF




Sliding the PICKUP with<< ▷▷ >>, << ◁◁ >> button must only be in STOP mode.

explanation:

| | |
|---|---|
| a) Focus off set | = "FOF_XXXX" |
| b)Tracking off set | = "TOF_XXXX" |
| c)Tracking balance | = "TBAL_XX" |
| d)Tracking Gain | = "TGAN_XX" |
| f) Focus Gain | = "FGAN_XX" |
| g) RF level shift | = "RFLS_XX" |

VOL — Last memory
P.GEQ — FLAT
X-BASS — OFF
To cancel : Power OFF

**[3] CD section**

**CD Error code description**

| Error | Explanation |
|---|---|
| 10* | CAM error. Can't detect CAM switch when CAM is moving. |
| 11* | When it detect cam operation error during initialize process. |
| 20* | TRAY error. Can't detect TRAY switch when TRAY is moving. |
| 21* | When it detect TRAY operation error during initialize process. |
| 31 | When it change to CD function, DSP cannot read initial data. |

* 'CHECKING'

If Error is detected, 'CHECKING' will be displayed instead of 'ER-CD**'. 'ER-CD**' display will only be displayed when error had been detected for the 5th times.

**Standard Specification of Stereo System Error Message Display Contents**

| Error Contents | | Display | Notes |
|---|---|---|---|
| CD | CD Changer Mechanism Error. | 'ER-CD**' (*) | 10: CAM SW Detection NG during normal operation<br>11: CAM SW Detection NG during initialize process<br>20:TRAY SW Detection NG during normal operation<br>21:TRAY SW Detection NG during initialize process |
| | CD DSP Communication Error. | 'ER-CD31' | DSP COMMUNICATION ERROR. |
| | Focus Not Match/IL Time Over. | 'NO DISC' | |
| TUNER | PLL Unlock. | FM 87.5 MHz | PLL Unlock. |

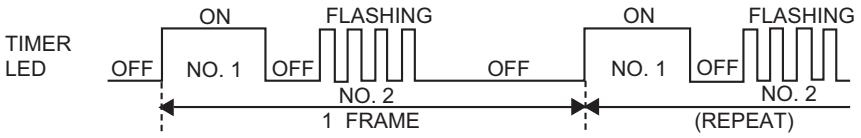
**(*) CHECKING:**

If CD changer mechanism error is detected, 'CHECKING' will be display instead of 'ER-CD**'. 'ER-CD**' display will only be display when error had been detected for the 5th times.

**Speaker abnormal detection and +B PROTECTION display**

In case speaker abnormal detection or +B PROTECTION had occurred, the unit will automatically enter to stand - by mode and Timer indicator will be flashing as below.

Example : In case of speaker abnormal




NO.1 : +B Protection
NO.2 : Speaker abnormal

+B PROTECTION is condition when irregular process occur on power supply line.

BEFORE TRANSPORTING THE UNIT

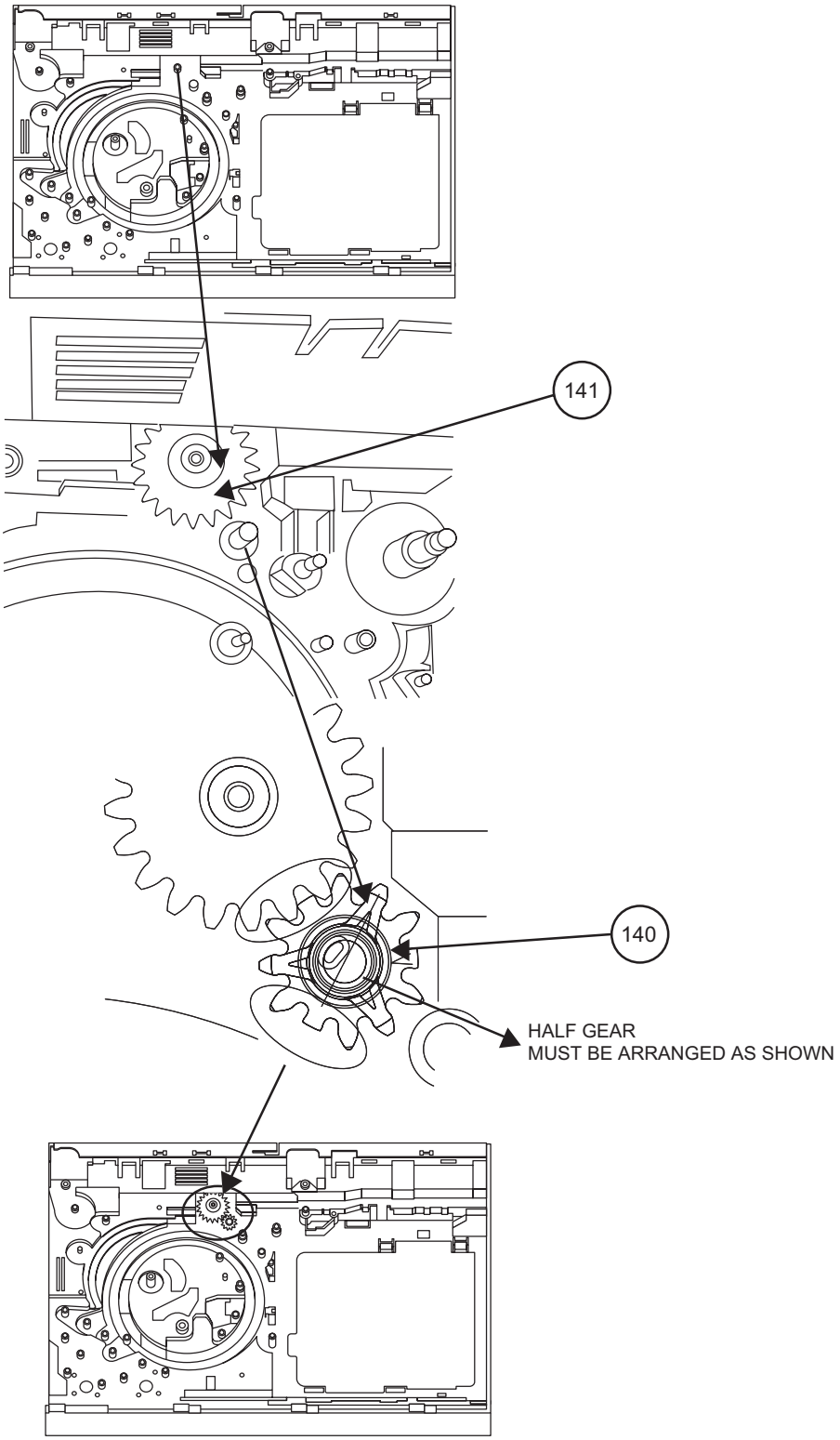
The following process need to be taken after set tapering/parts replacement.

1. Press the ON/STAND-BY button to enter stand-by mode.
2. While pressing down the ▲ button and the ◀◀ I◀◀ button, press the GAME/VIDEO button. The Micro Computer version number will be displayed as "CM*****".
3. Press ▲ button until "WAIT"→ "FINISHED" appears.
4. Unplug the AC cord and the unit is ready for transporting.

**[4] CD Changer mechanism section**

- All numbers in the drawing correspond to those in parts guide (CHANGER MECHANISM PARTS).

1



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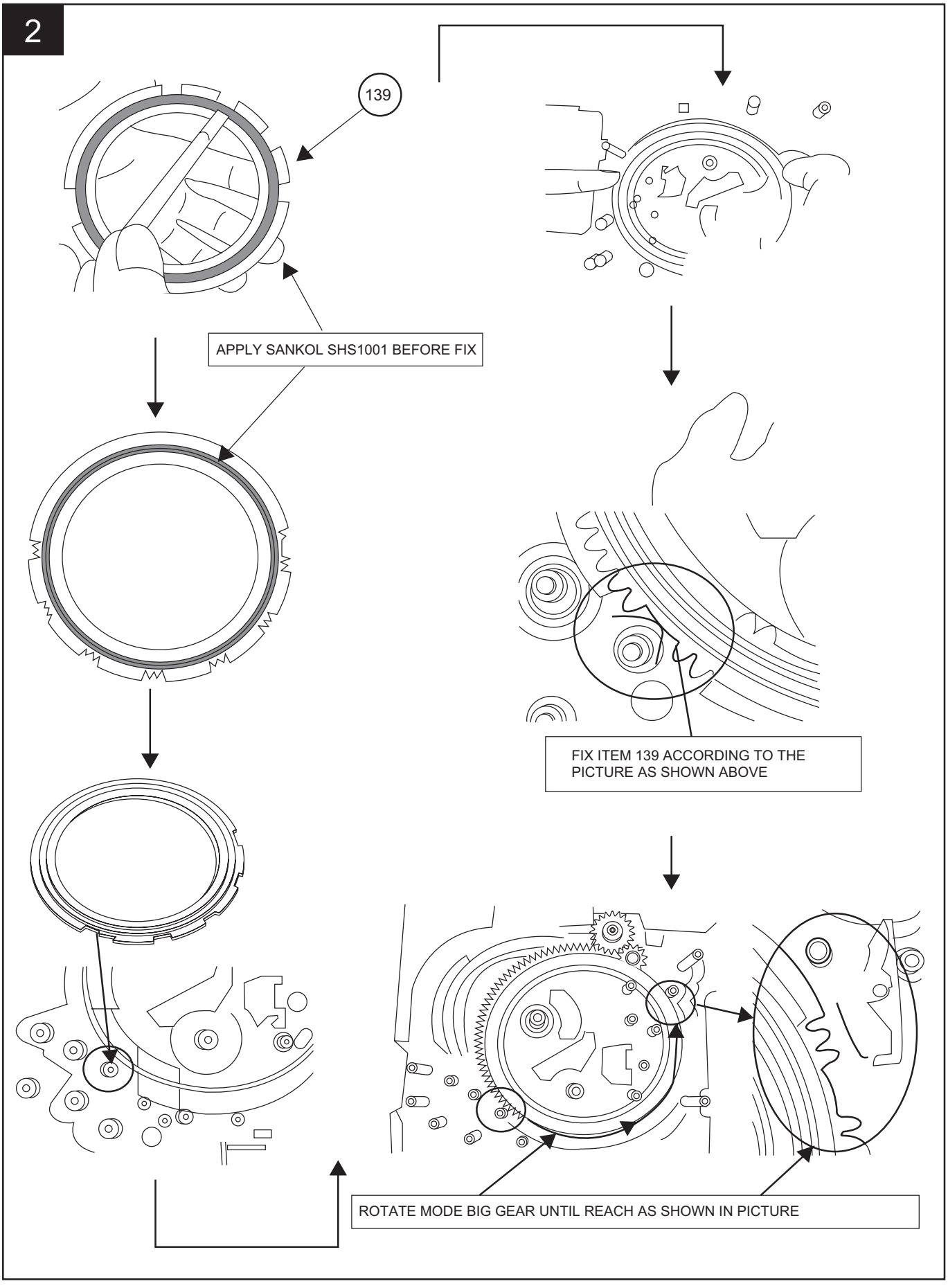
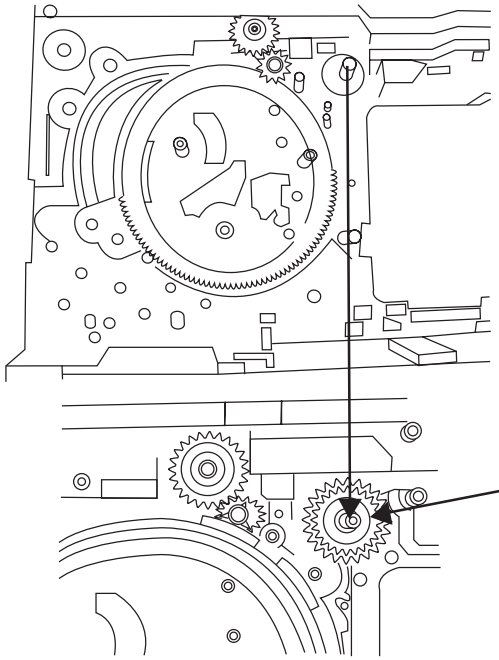
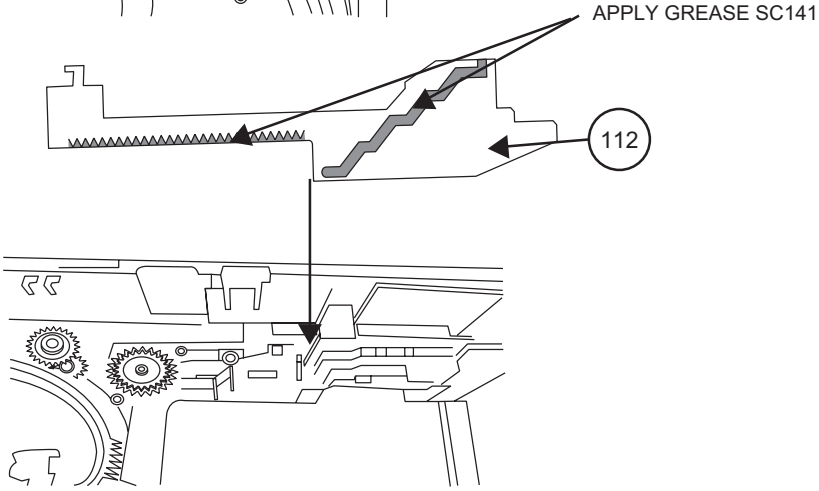
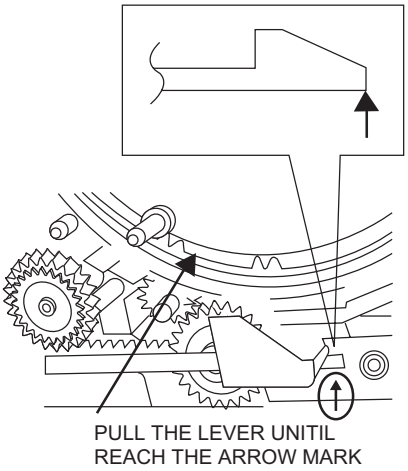
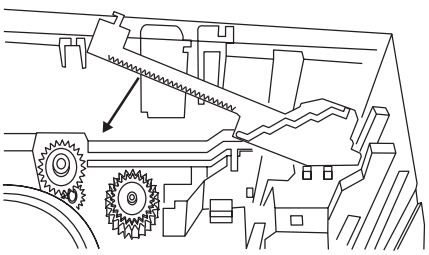

139
APPLY SANKOL SHS1001 BEFORE FIX
FIX ITEM 139 ACCORDING TO THE PICTURE AS SHOWN ABOVE
ROTATE MODE BIG GEAR UNTIL REACH AS SHOWN IN PICTURE

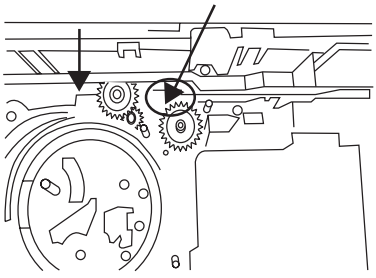
3


143


APPLY GREASE SC141
112


PULL THE LEVER UNITIL
REACH THE ARROW MARK





4

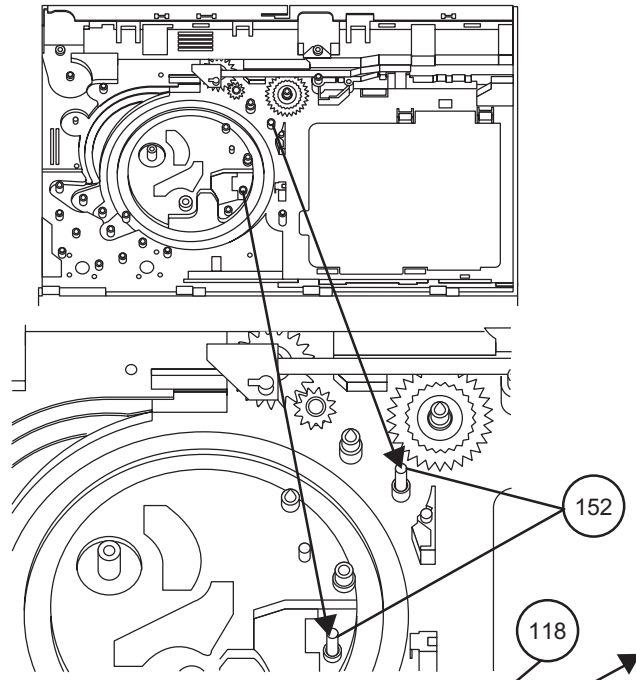



FIGURE 1

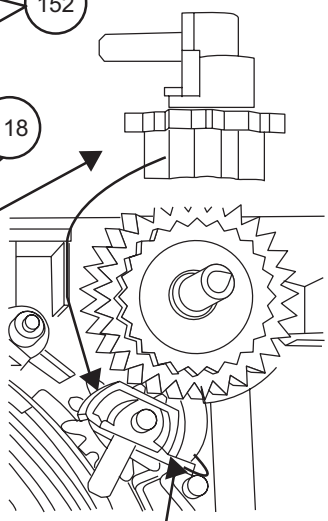
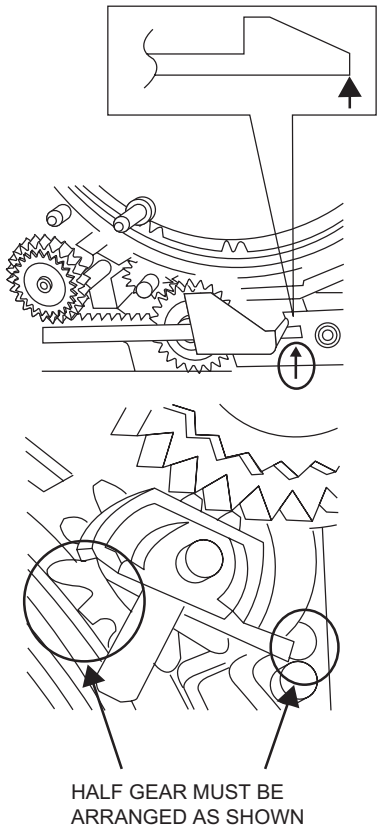



FIGURE 2



5

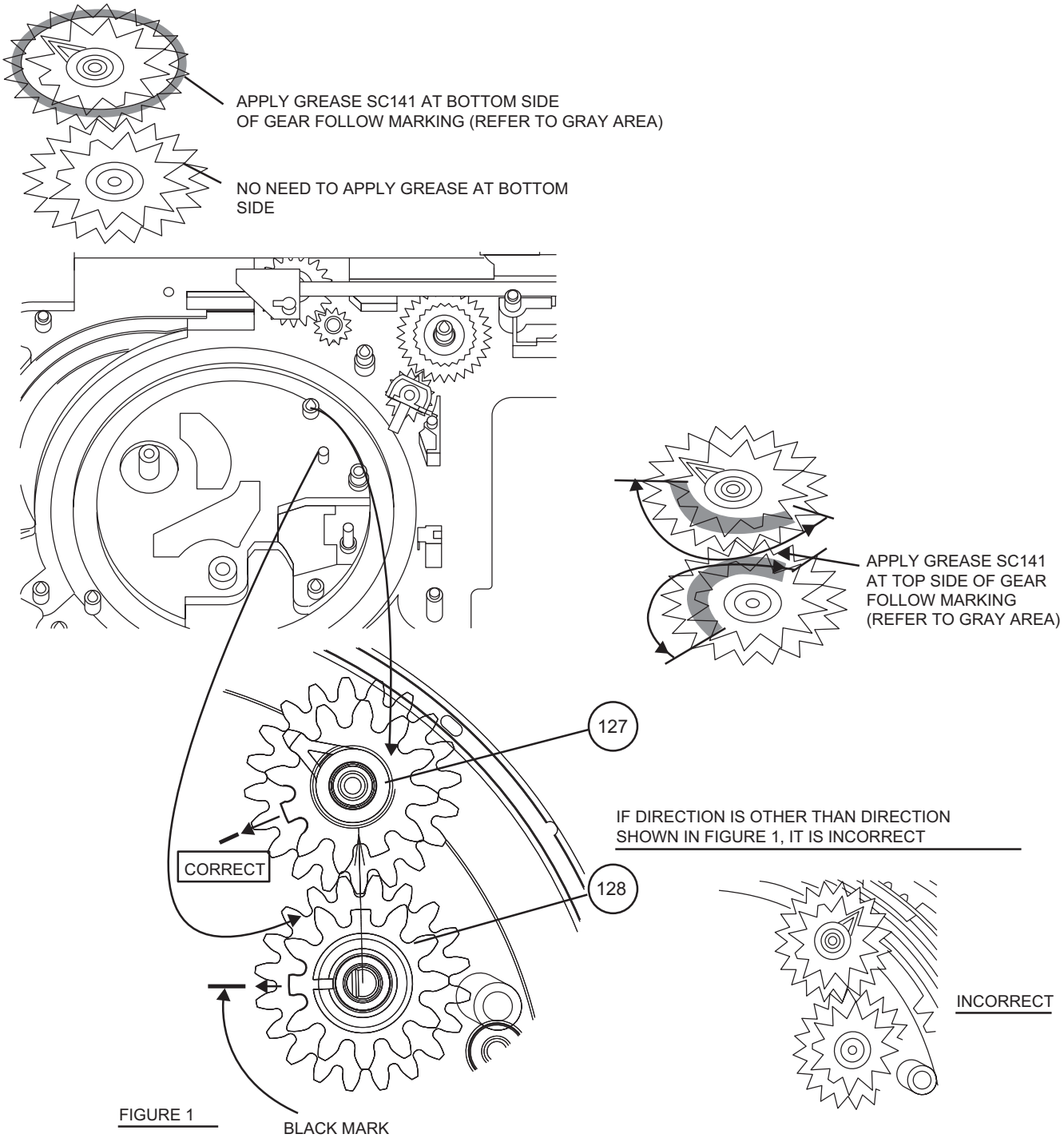
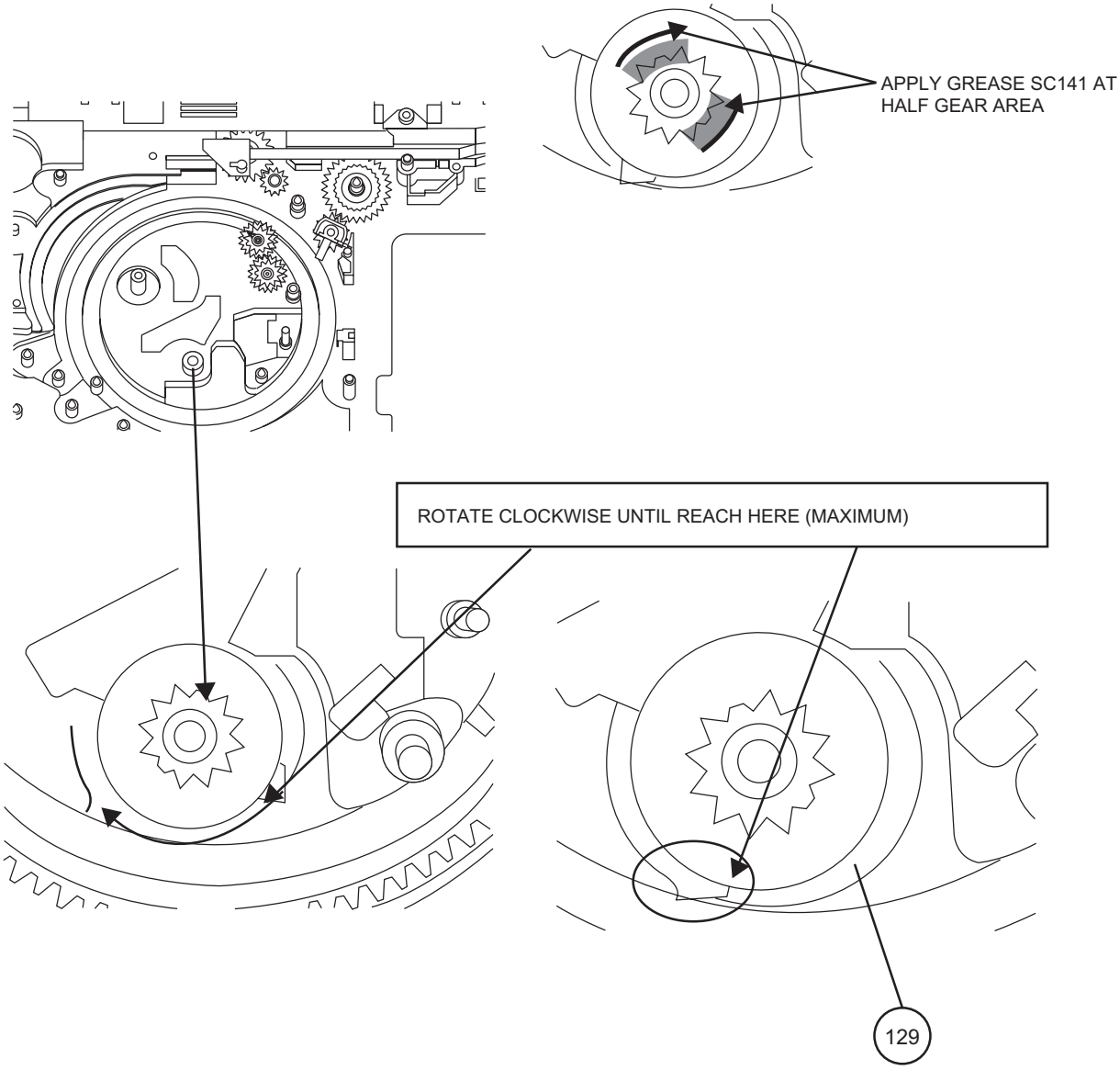
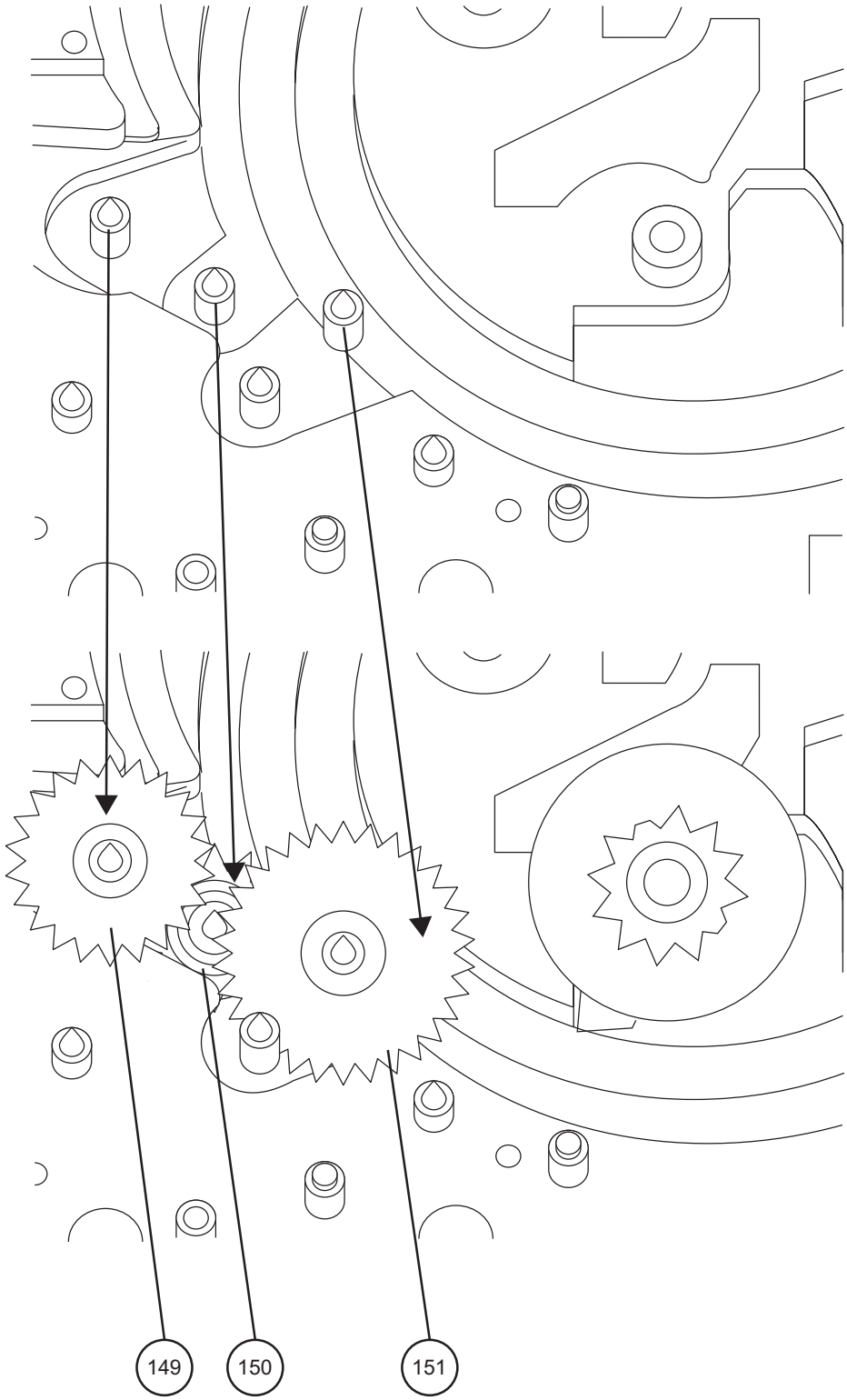

APPLY GREASE SC141 AT BOTTOM SIDE
OF GEAR FOLLOW MARKING (REFER TO GRAY AREA)
NO NEED TO APPLY GREASE AT BOTTOM
SIDE
APPLY GREASE SC141
AT TOP SIDE OF GEAR
FOLLOW MARKING
(REFER TO GRAY AREA)
127
128
CORRECT
IF DIRECTION IS OTHER THAN DIRECTION
SHOWN IN FIGURE 1, IT IS INCORRECT
INCORRECT
BLACK MARK

FIGURE 1

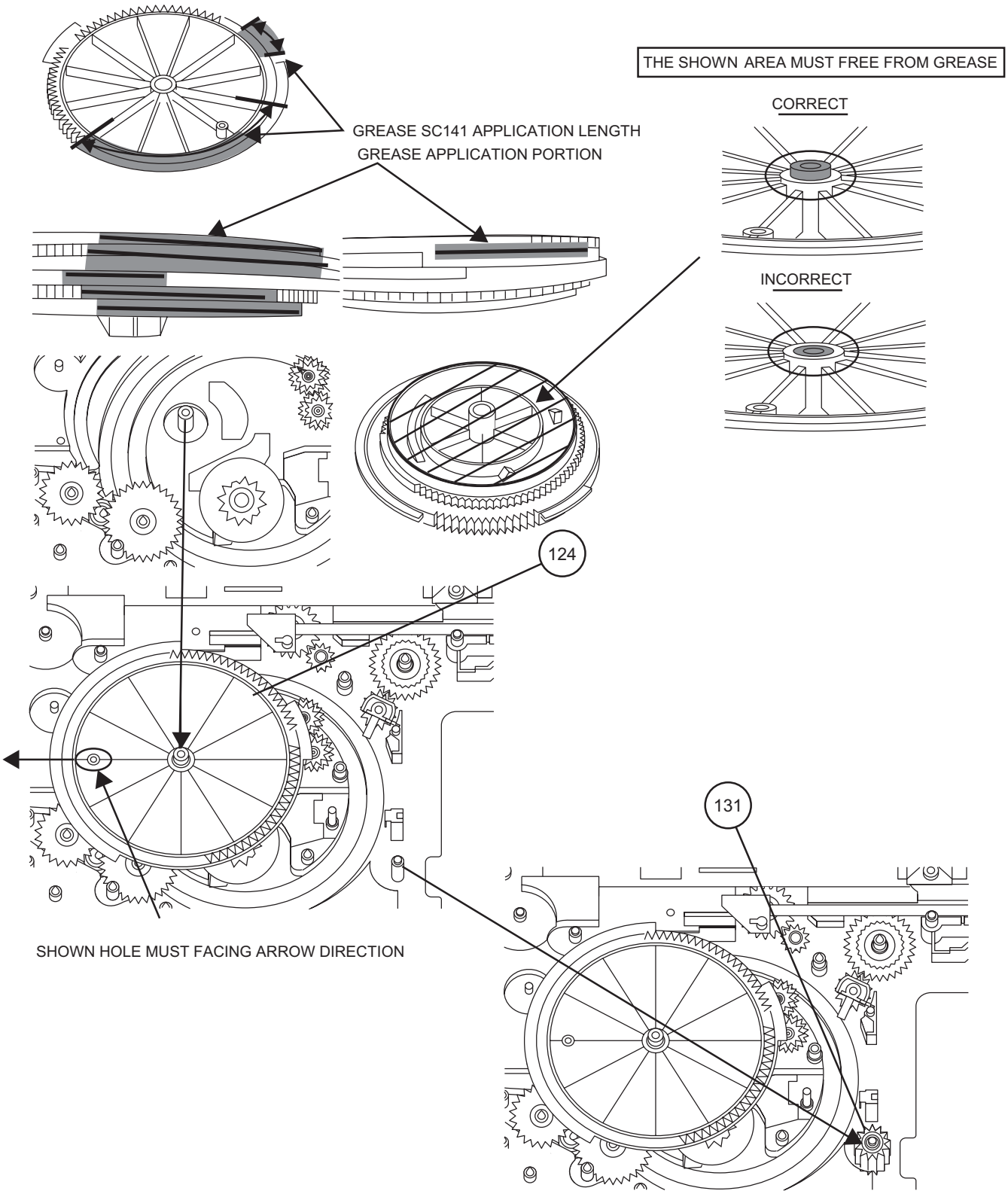
6


APPLY GREASE SC141 AT
HALF GEAR AREA
ROTATE CLOCKWISE UNTIL REACH HERE (MAXIMUM)
129

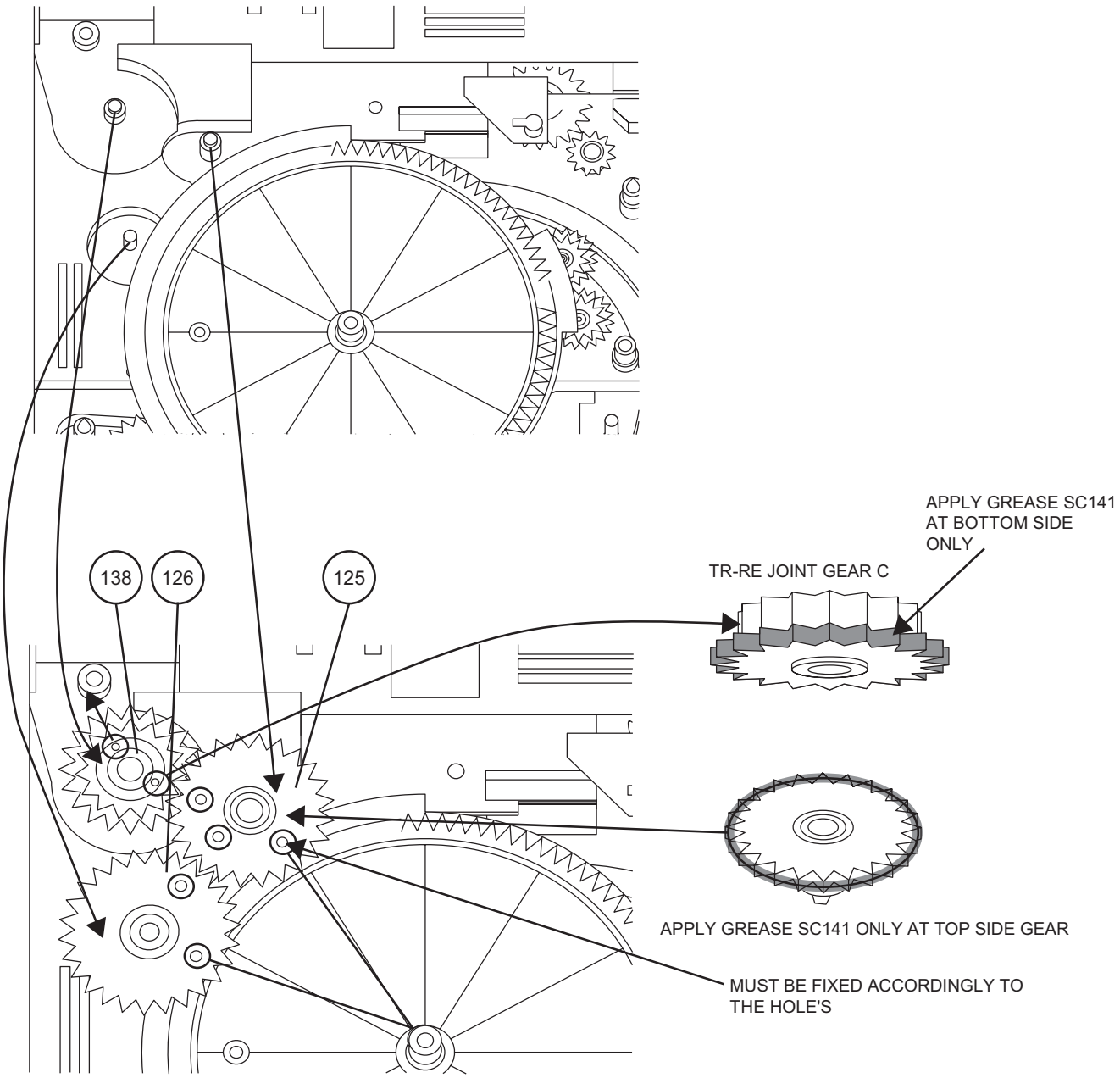
7



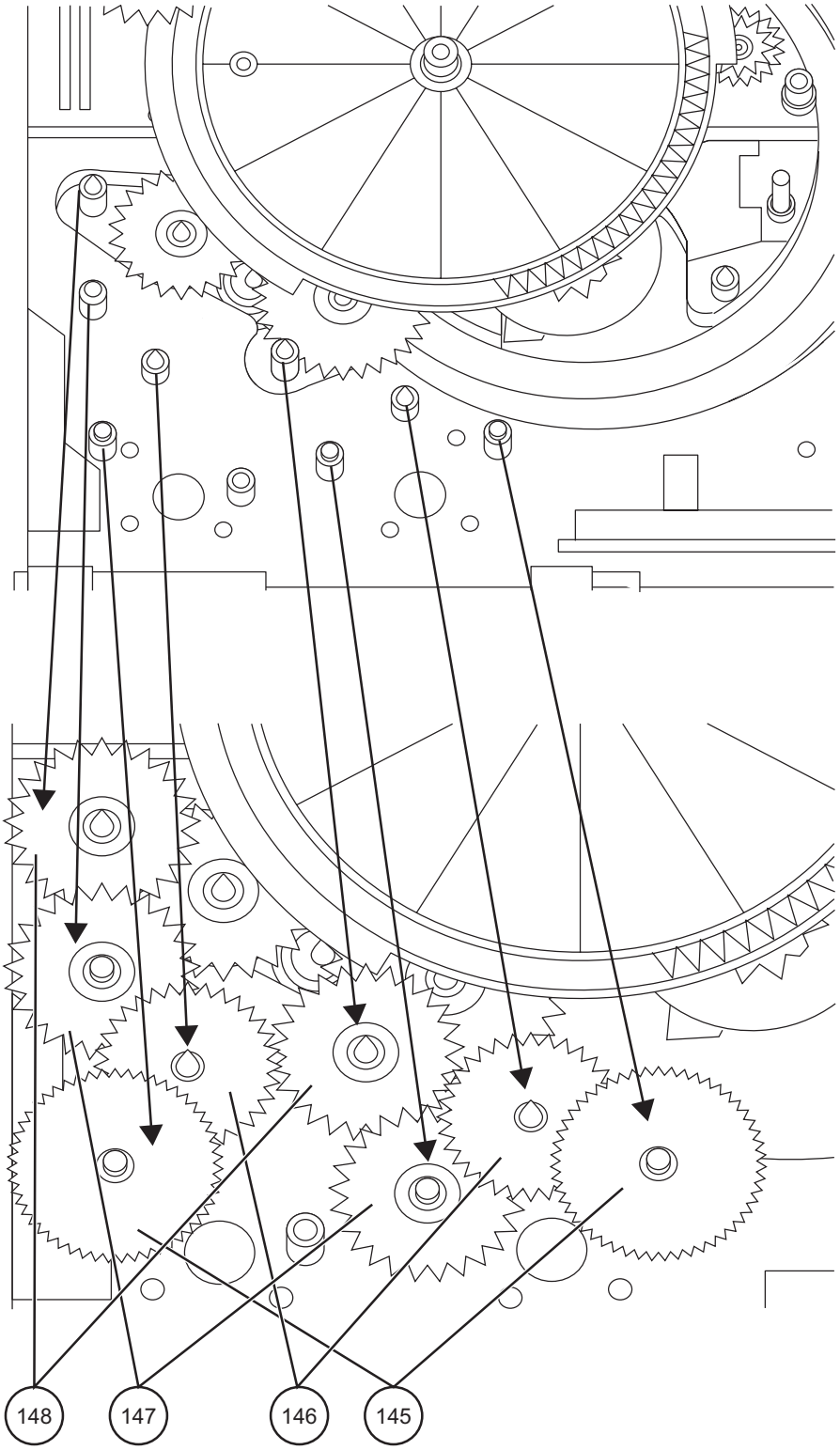
8


THE SHOWN AREA MUST FREE FROM GREASE
CORRECT
INCORRECT
GREASE SC141 APPLICATION LENGTH
GREASE APPLICATION PORTION
124
131
SHOWN HOLE MUST FACING ARROW DIRECTION

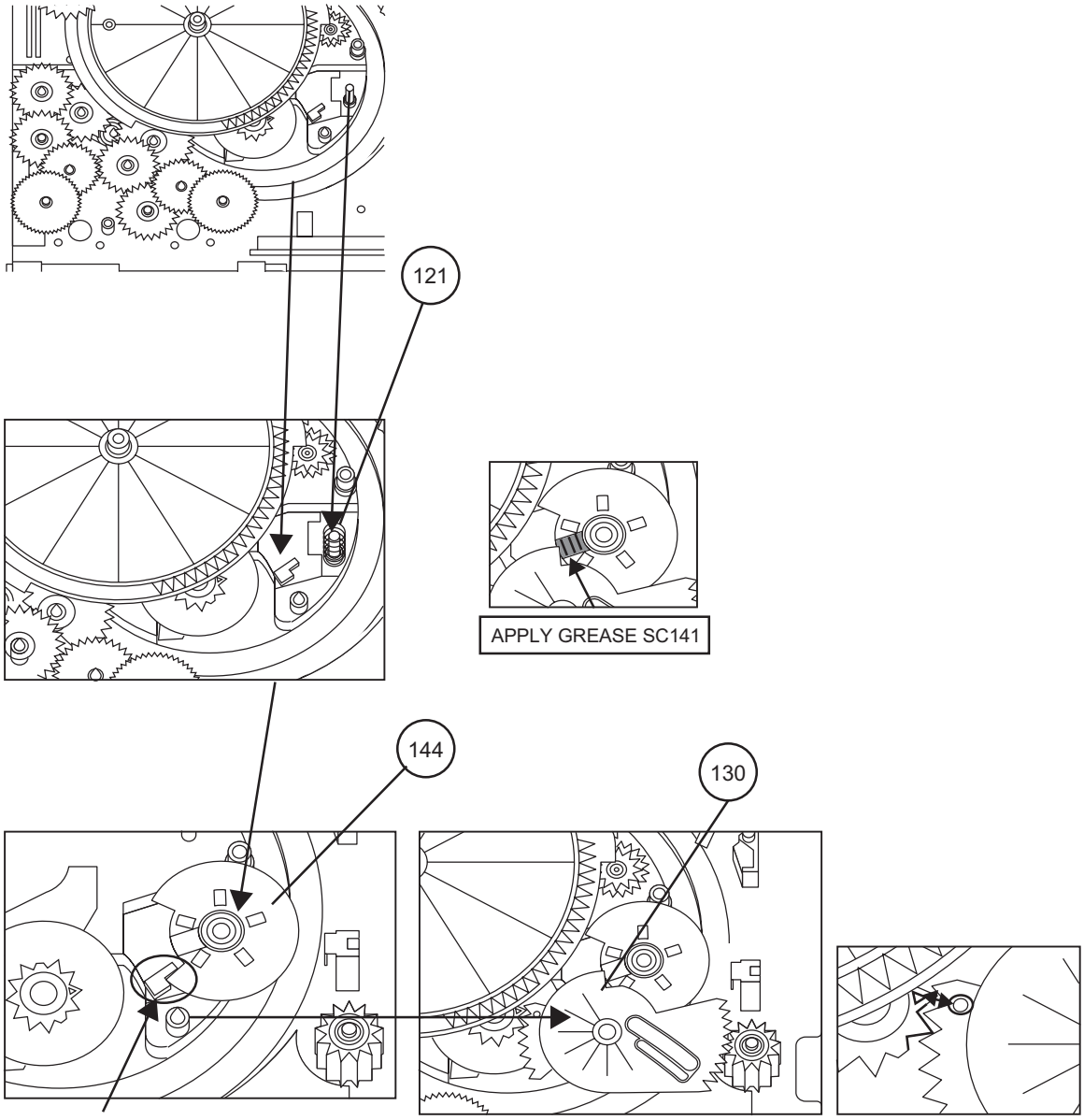
9


APPLY GREASE SC141
AT BOTTOM SIDE
ONLY
TR-RE JOINT GEAR C
138
126
125
APPLY GREASE SC141 ONLY AT TOP SIDE GEAR
MUST BE FIXED ACCORDINGLY TO
THE HOLE'S

10

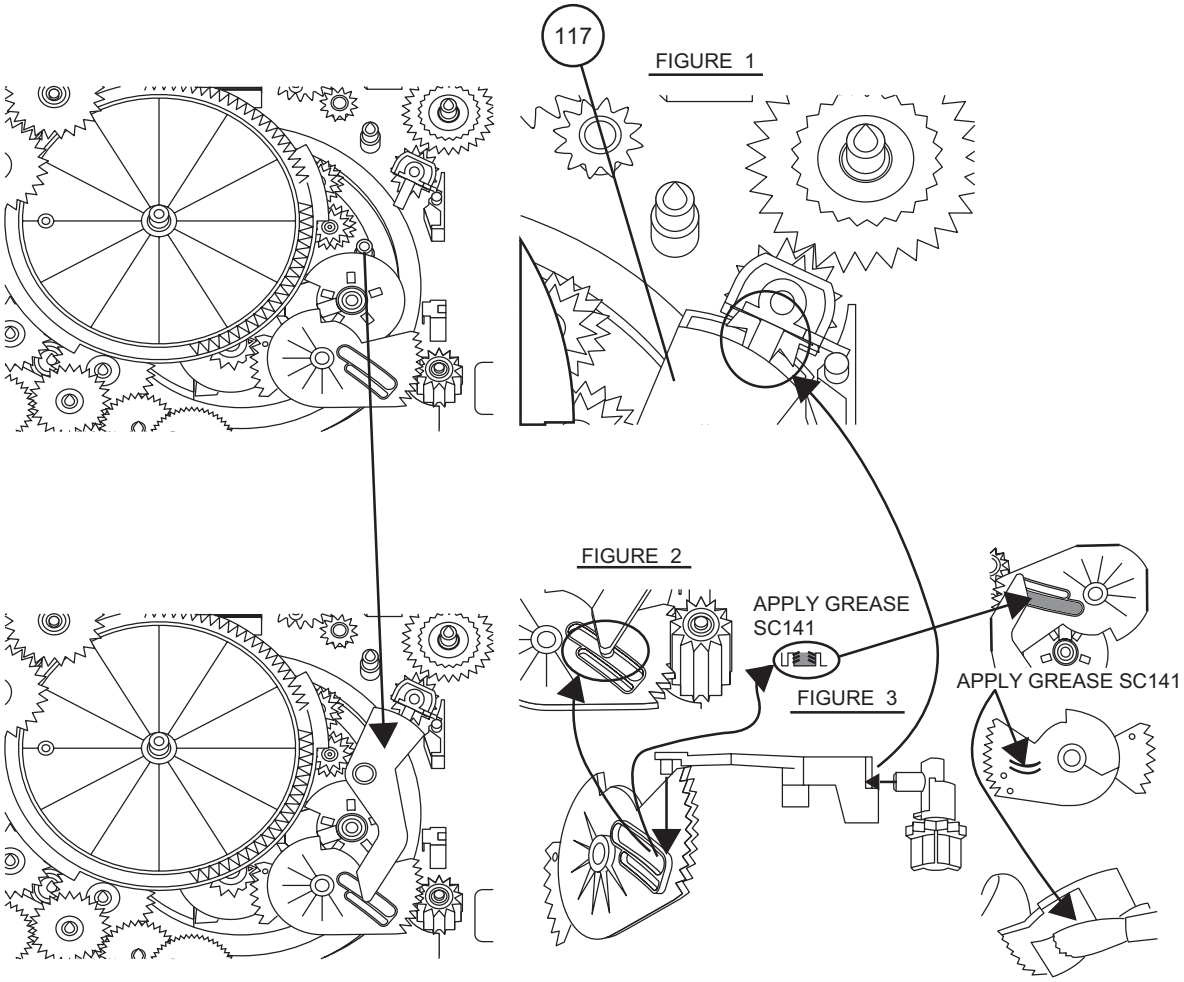


11

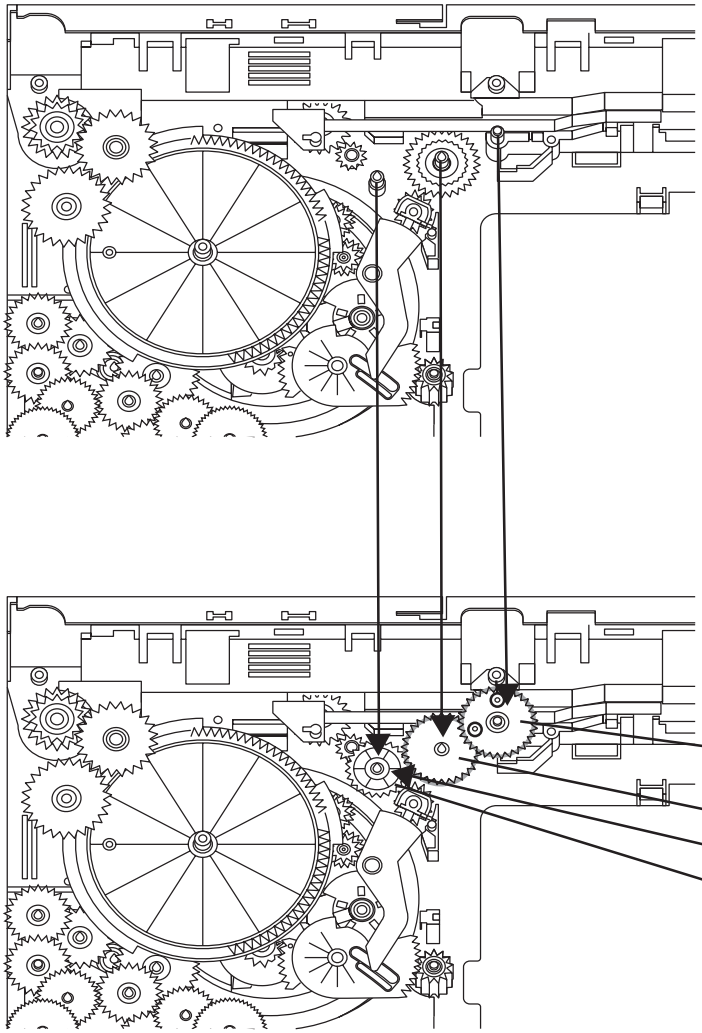



WHEN FIXING ITEM 144 MUST FOLLOW AS SHOWN

12


117
FIGURE 1
FIGURE 2
APPLY GREASE
SC141
FIGURE 3
APPLY GREASE SC141

13



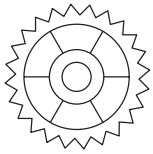
ITEM 133 , 134 MUST APPLY GREASE SC141
ON TOP SIDE GEAR ONLY

134

133

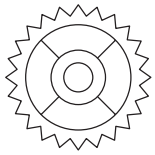
132

GEAR 112
CORRECT



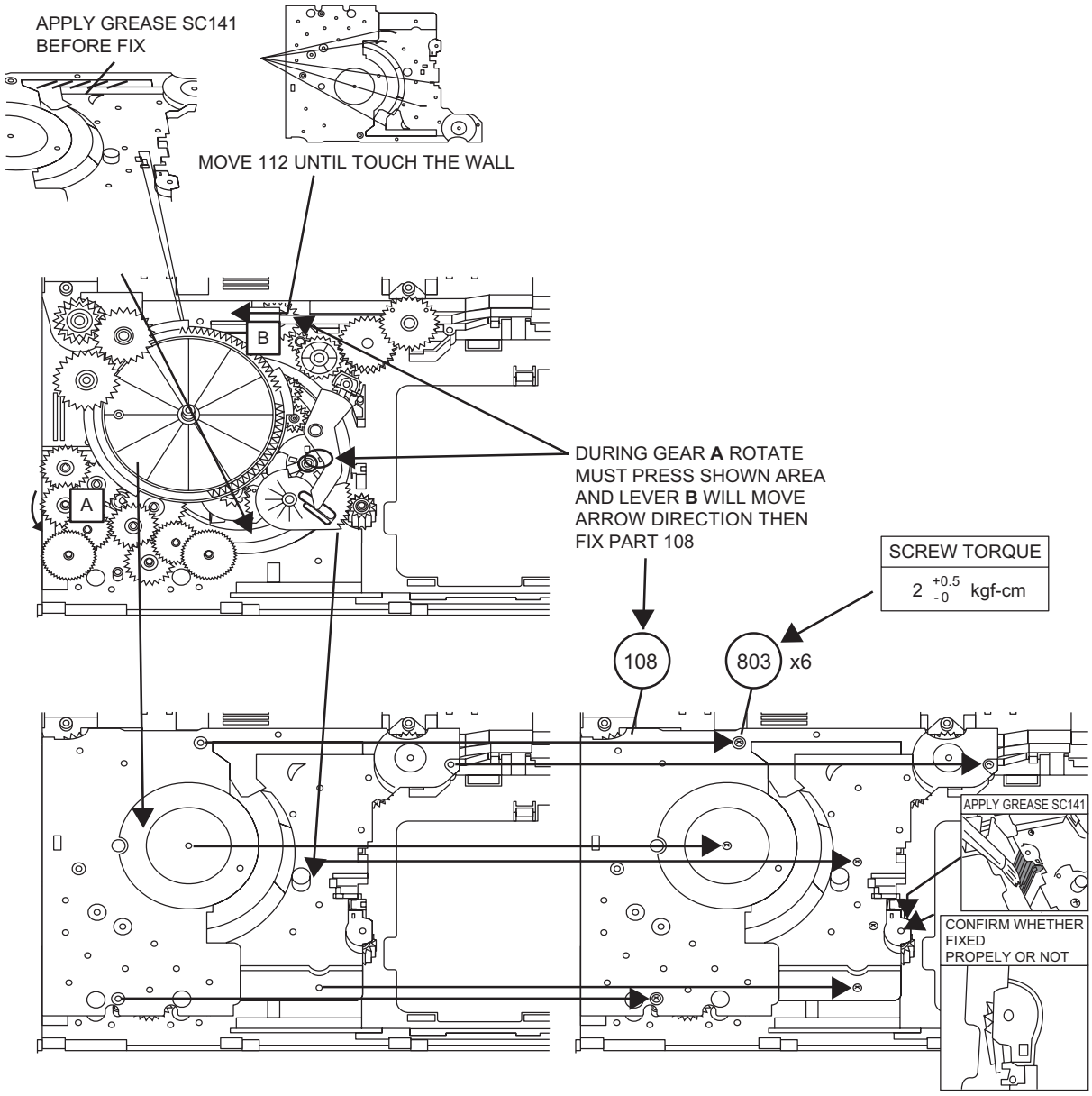
TOP VIEW AFTER
BEING ASSEMBLED

GEAR 112
INCORRECT

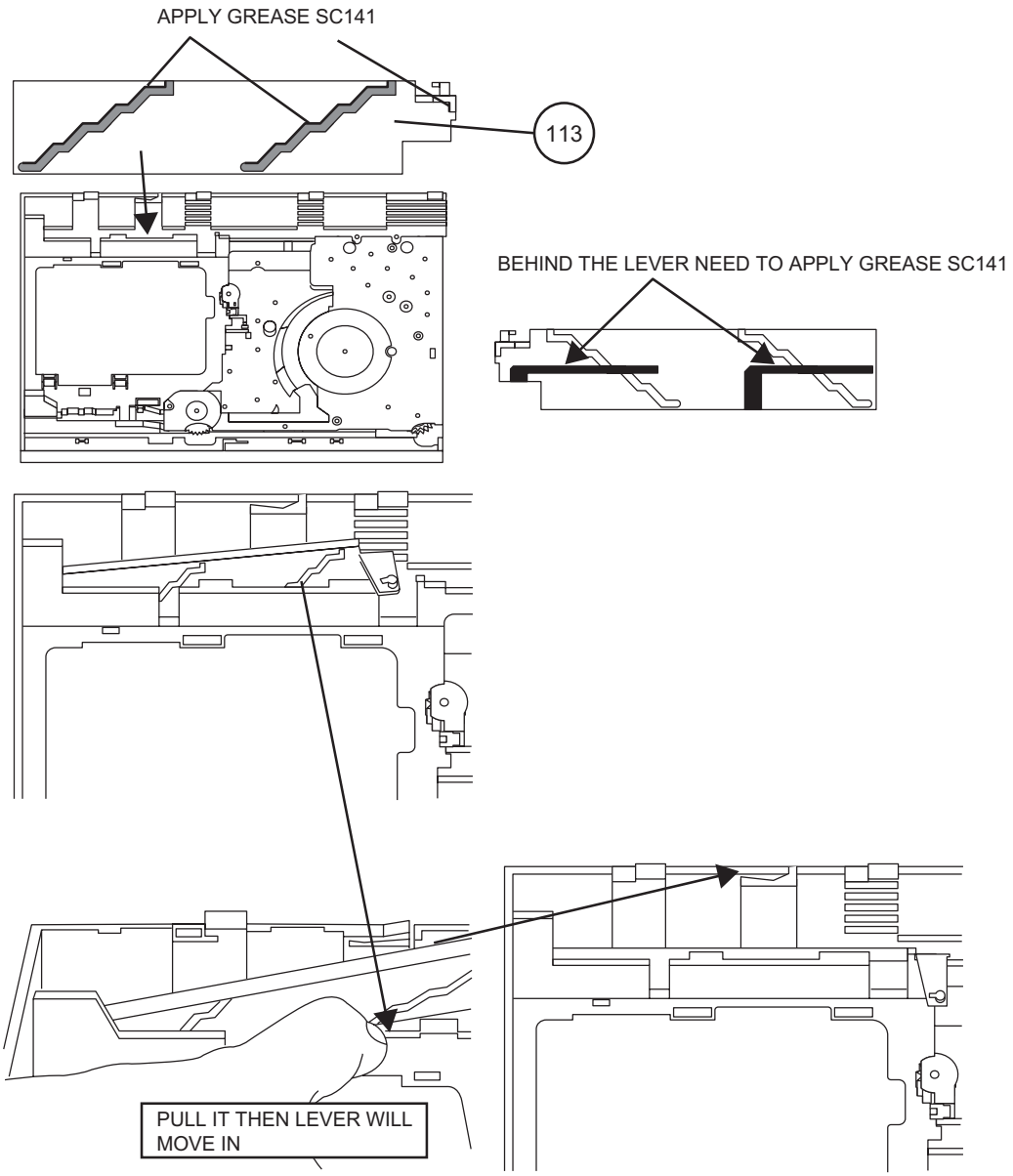


IT IS INCORRECT TO
FIX IT IN REVERSED
DIRECTION

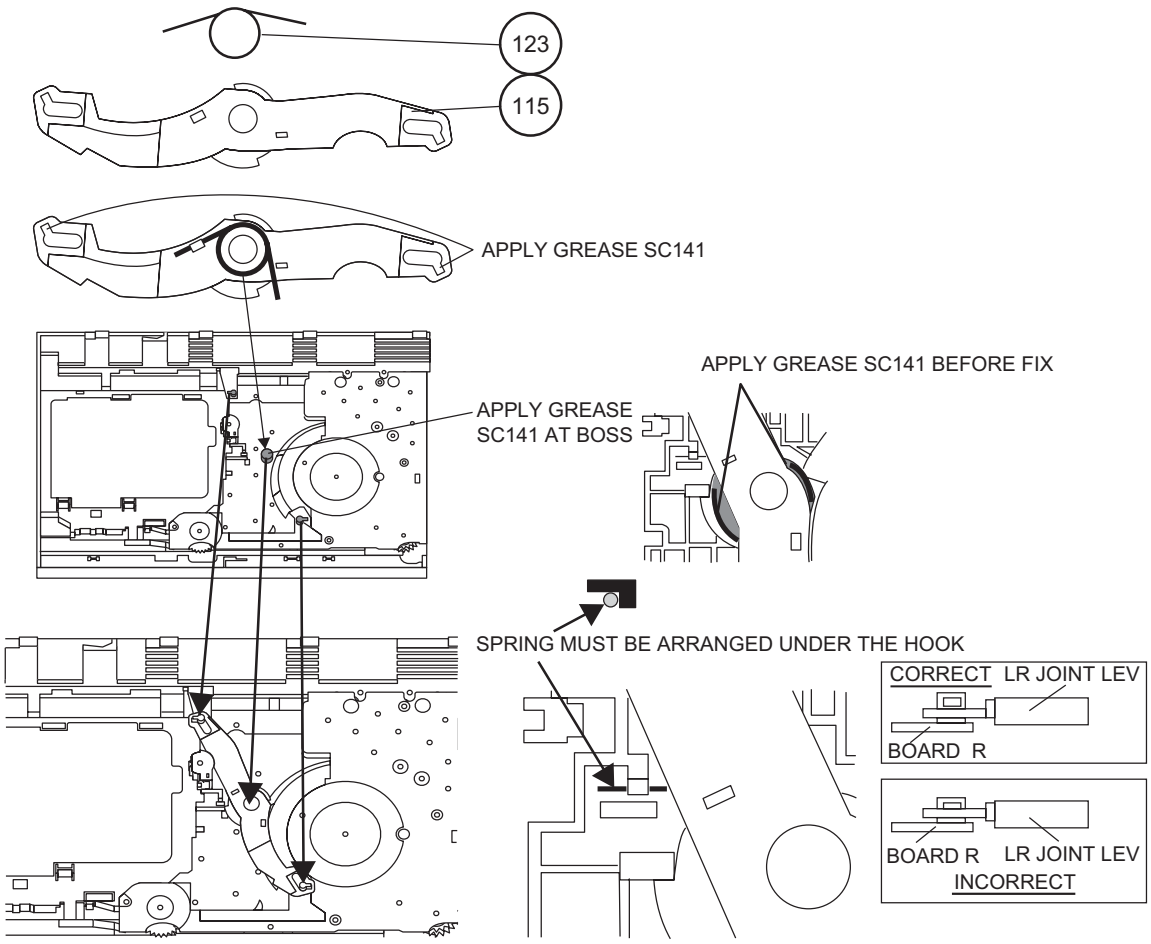
14


APPLY GREASE SC141
BEFORE FIX
MOVE 112 UNTIL TOUCH THE WALL
B
A
DURING GEAR **A** ROTATE
MUST PRESS SHOWN AREA
AND LEVER **B** WILL MOVE
ARROW DIRECTION THEN
FIX PART 108
SCREW TORQUE
2 +0.5 -0 kgf-cm
108
803 x6
APPLY GREASE SC141
CONFIRM WHETHER
FIXED
PROPELY OR NOT

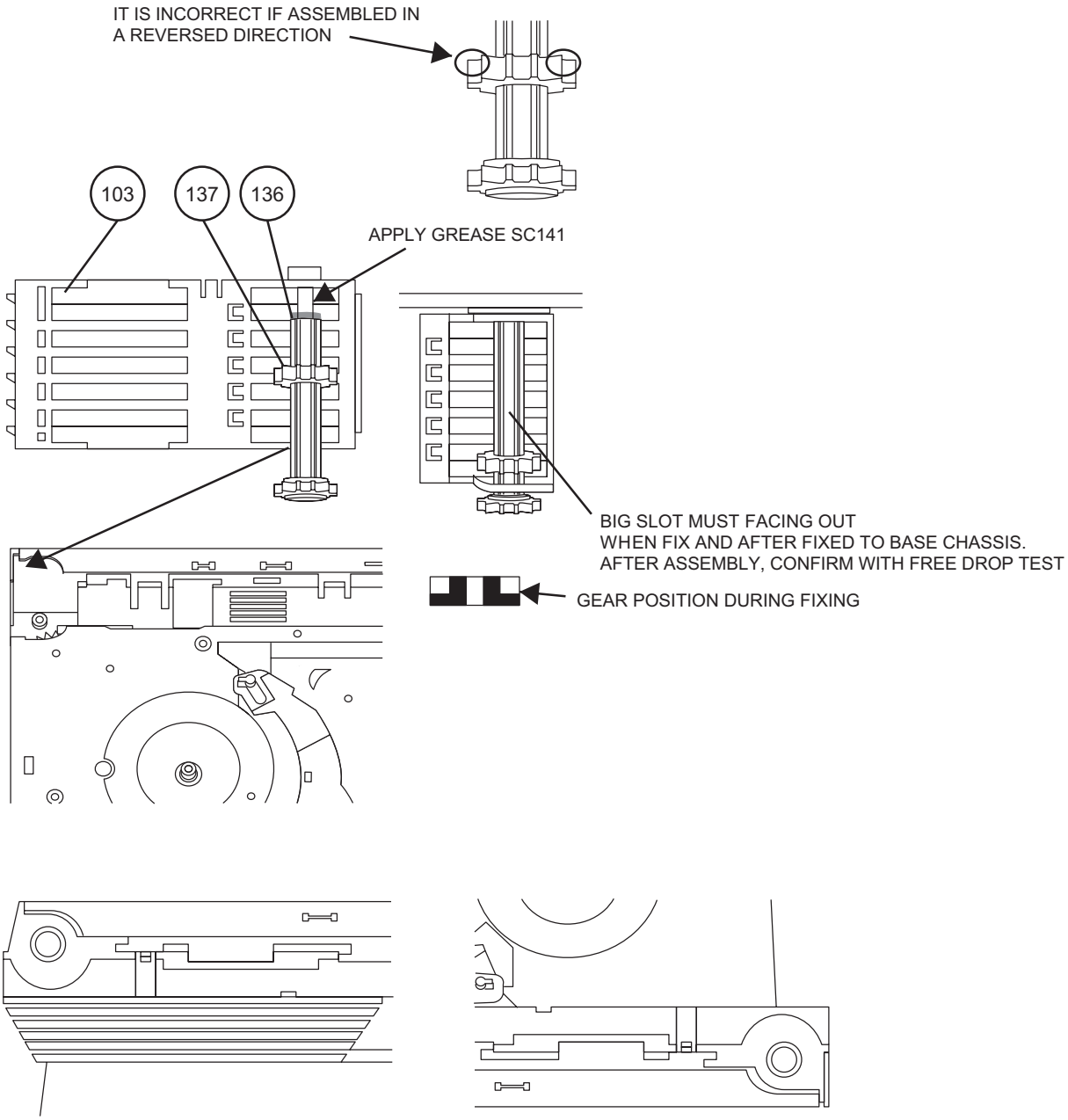
15


APPLY GREASE SC141
113
BEHIND THE LEVER NEED TO APPLY GREASE SC141
PULL IT THEN LEVER WILL MOVE IN

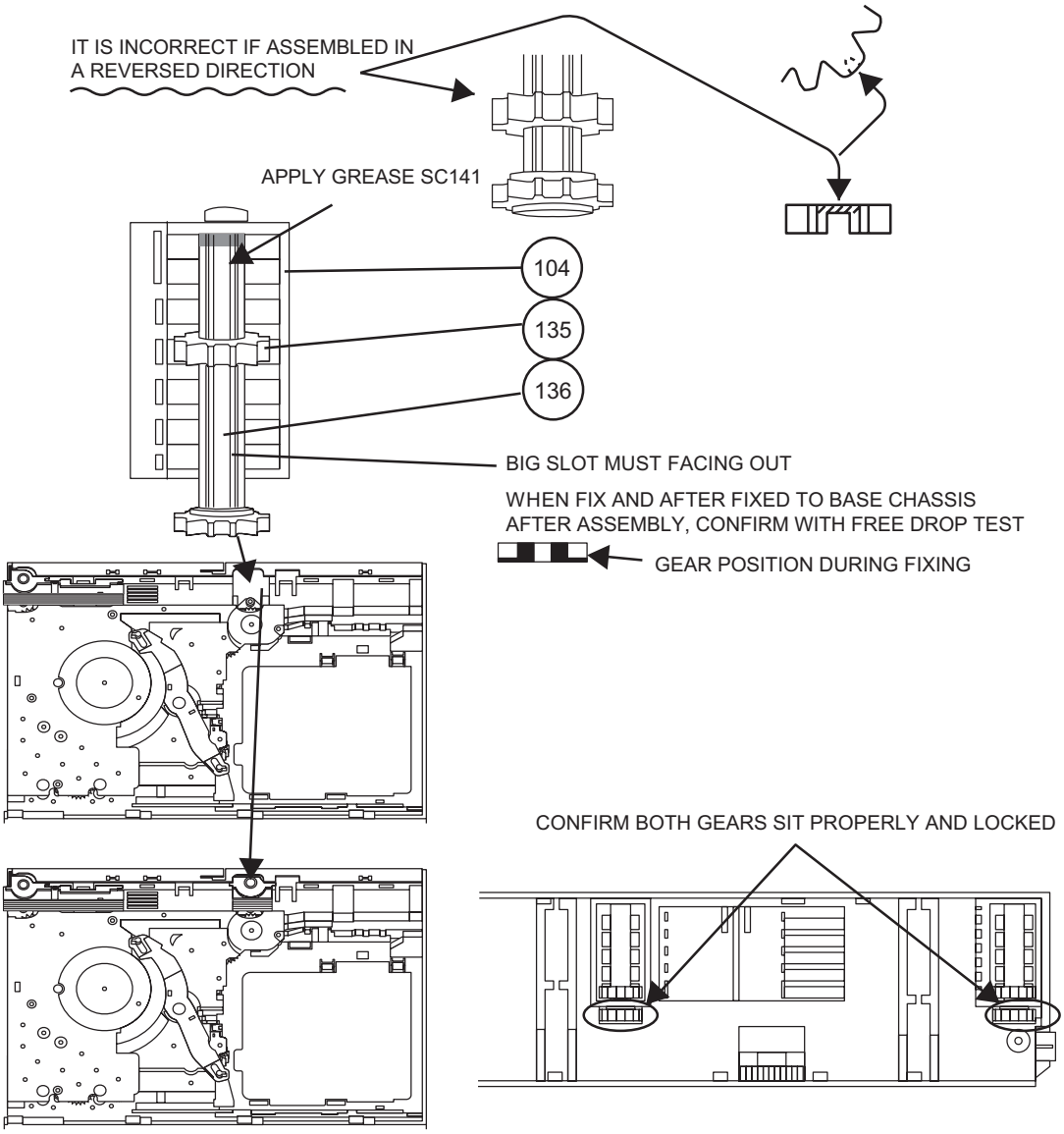
16


123
115
APPLY GREASE SC141
APPLY GREASE SC141 BEFORE FIX
APPLY GREASE
SC141 AT BOSS
SPRING MUST BE ARRANGED UNDER THE HOOK
CORRECT
LR JOINT LEV
BOARD R
BOARD R
LR JOINT LEV
INCORRECT

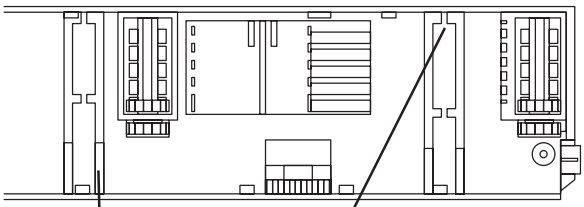
17


IT IS INCORRECT IF ASSEMBLED IN
A REVERSED DIRECTION
103
137
136
APPLY GREASE SC141
BIG SLOT MUST FACING OUT
WHEN FIX AND AFTER FIXED TO BASE CHASSIS.
AFTER ASSEMBLY, CONFIRM WITH FREE DROP TEST
GEAR POSITION DURING FIXING

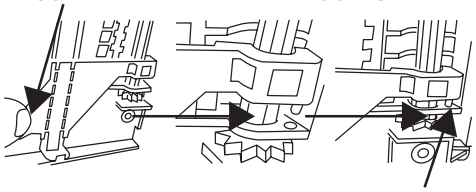
18


IT IS INCORRECT IF ASSEMBLED IN
A REVERSED DIRECTION
APPLY GREASE SC141
104
135
136
BIG SLOT MUST FACING OUT
WHEN FIX AND AFTER FIXED TO BASE CHASSIS
AFTER ASSEMBLY, CONFIRM WITH FREE DROP TEST
GEAR POSITION DURING FIXING
CONFIRM BOTH GEARS SIT PROPERLY AND LOCKED

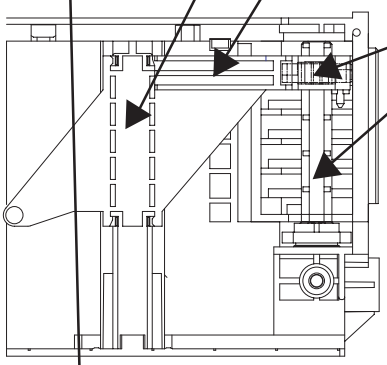
19



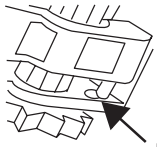
AFTER FIX OUTER UP/DOWN LEVER HOLD AS SHOWN PORTION AND
MOVE UP/DOWN THEN CONFIRM WHETHER LEVER GO INSIDE THE HOLE OR NOT



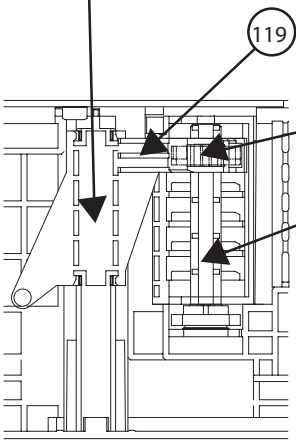
IT IS CORRECT IF THE LEVER HOLD
ENTERS THE HOLE



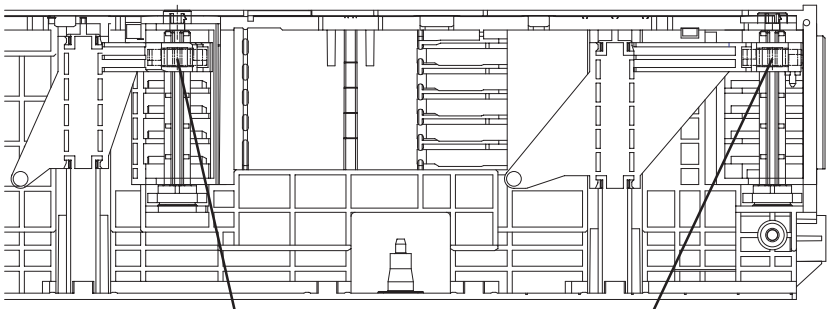

BIGGER SLOT FACING OUT



IT IS INCORRECT IF THE LEVER HOLD DOES NOT
ENTER THE HOLE

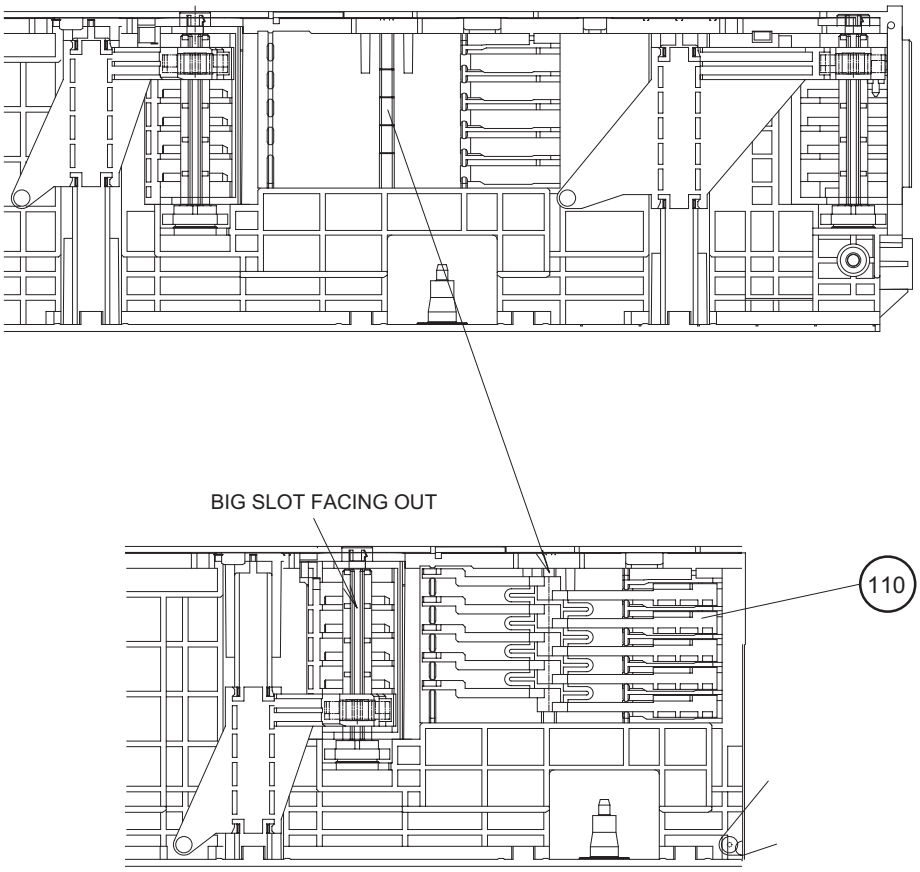



BIGGER SLOT FACING OUT

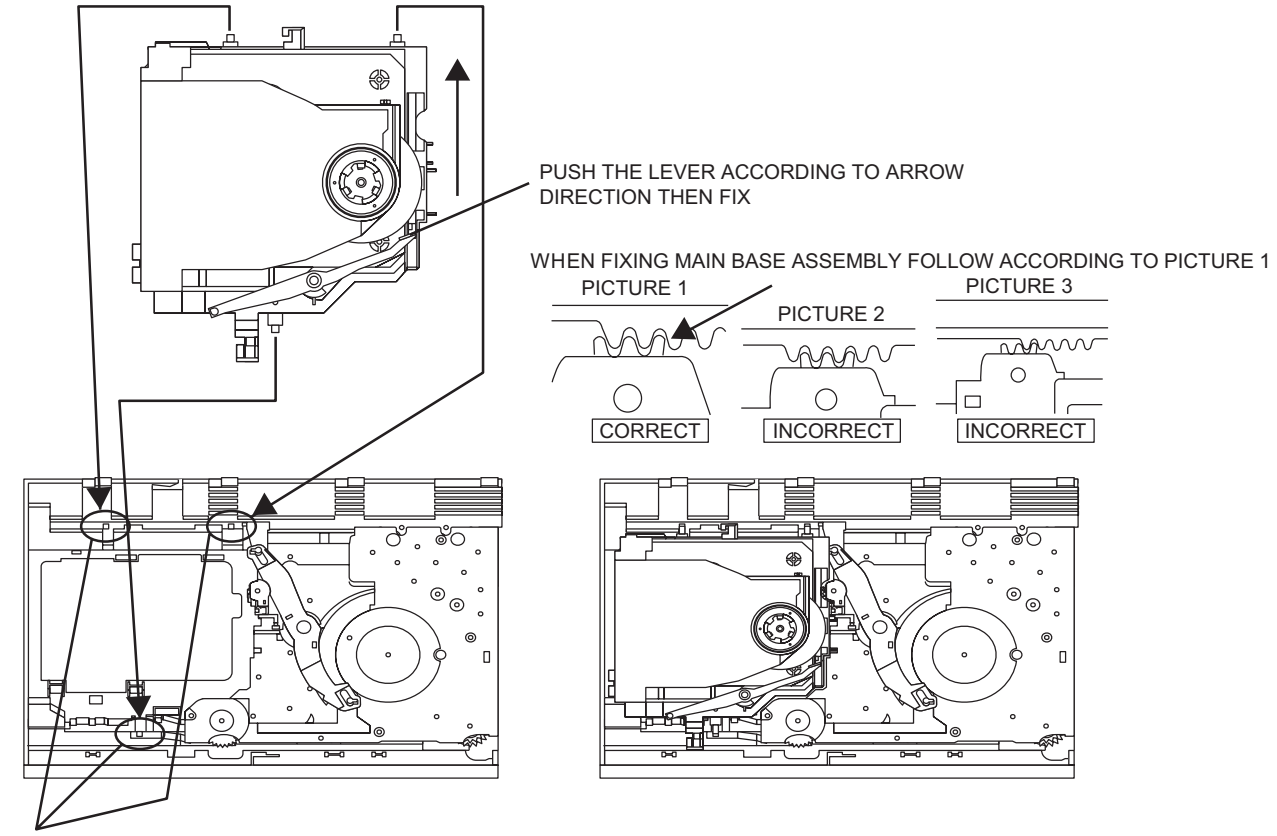


ALL OF THIS 135 AND 137 GEAR FIX TOGETHER WITH 119
AND 120 LEVER ( MOVE TOGETHER )

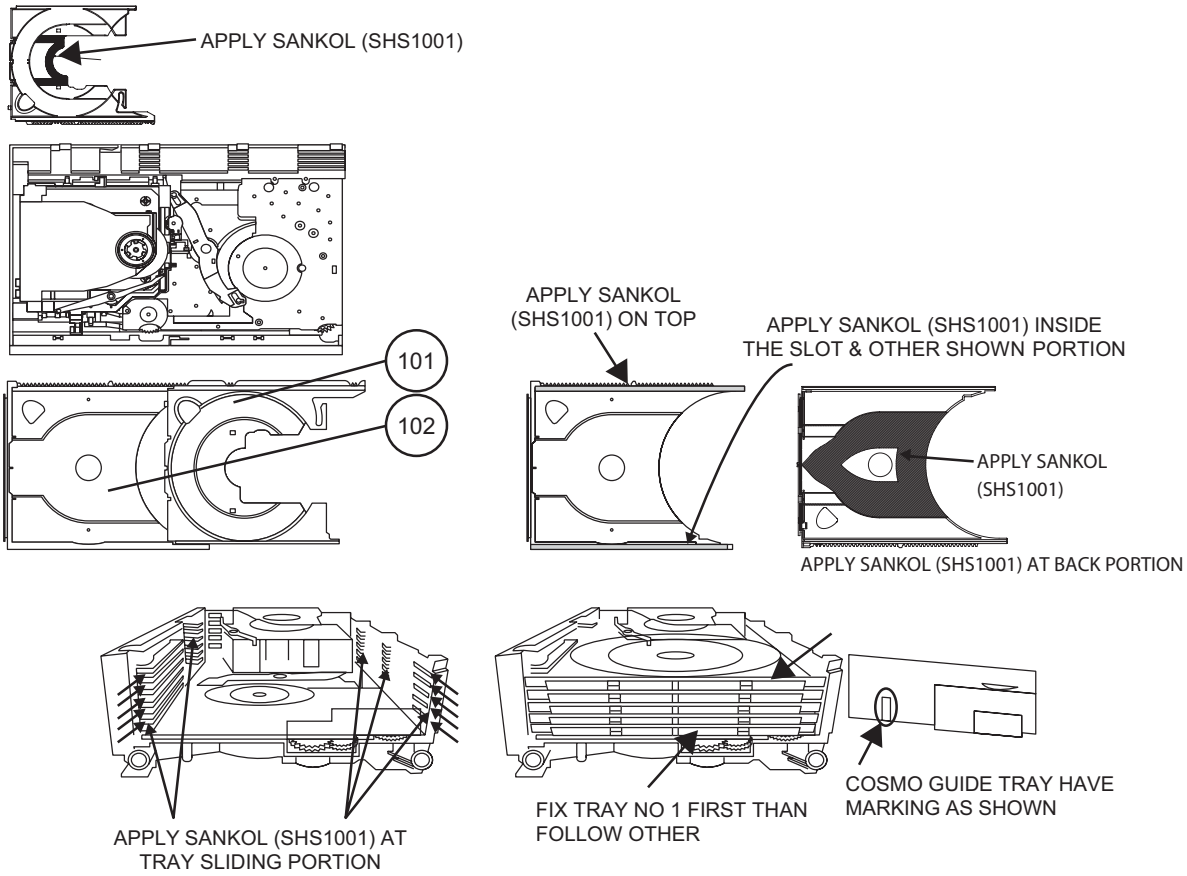
20



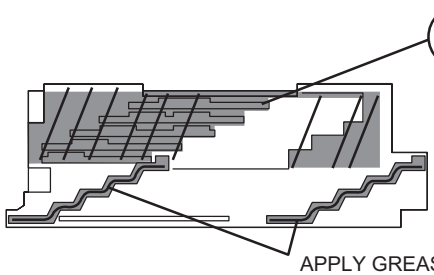
21


PUSH THE LEVER ACCORDING TO ARROW DIRECTION THEN FIX
WHEN FIXING MAIN BASE ASSEMBLY FOLLOW ACCORDING TO PICTURE 1
PICTURE 1
PICTURE 2
PICTURE 3
CORRECT
INCORRECT
INCORRECT
MAKE SURE MECHA HOLDER SHAFT FIX PROPERLY TO LEVER

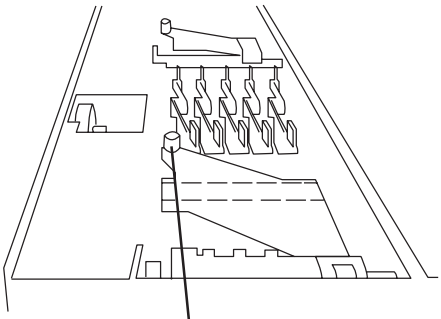
22


APPLY SANKOL (SHS1001)
101
102
APPLY SANKOL
(SHS1001) ON TOP
APPLY SANKOL (SHS1001) INSIDE
THE SLOT & OTHER SHOWN PORTION
APPLY SANKOL
(SHS1001)
APPLY SANKOL (SHS1001) AT BACK PORTION
APPLY SANKOL (SHS1001) AT
TRAY SLIDING PORTION
FIX TRAY NO 1 FIRST THAN
FOLLOW OTHER
COSMO GUIDE TRAY HAVE
MARKING AS SHOWN

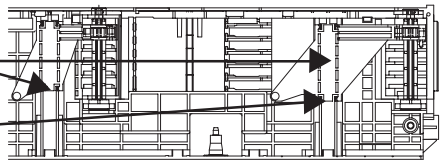
23

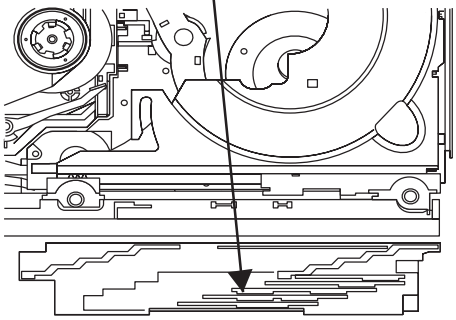


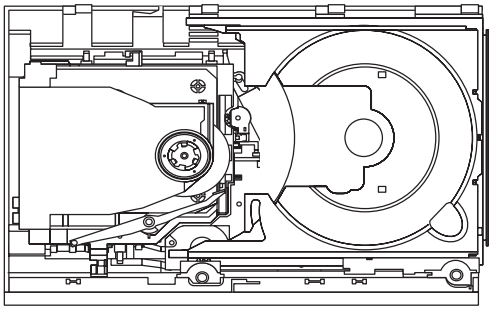

APPLY GREASE SC141 AT INNER & OUTER GEAR SLIDING PORTION



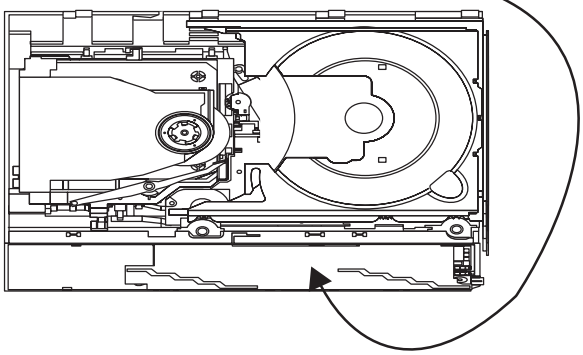
WHEN FIX GEAR UP/ DOWN BOARD THE TWO LEVER MUST AT PARALLEL LINE AND POSITIONED AT TOP MAX SIDE



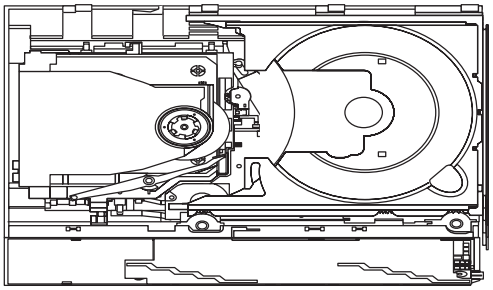




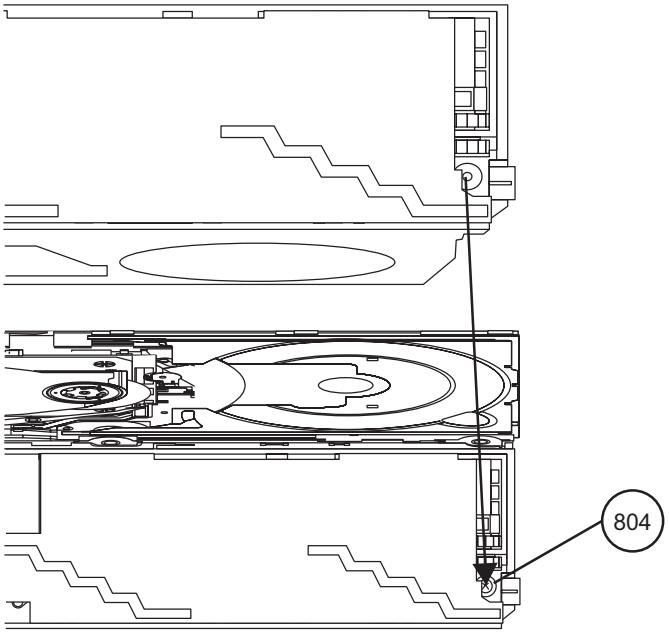
AFTER ASSEMBLY GEAR UP/DOWN BOARD

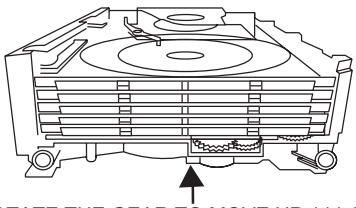


24



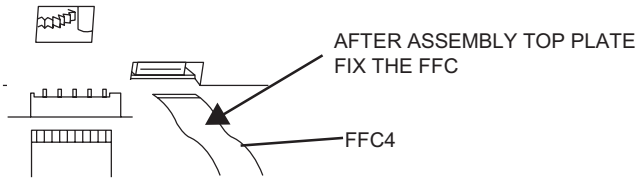
| SCREW TORQUE |
| --- |
| $3\ ^{+0.5}_{-0}$ kgf-cm |

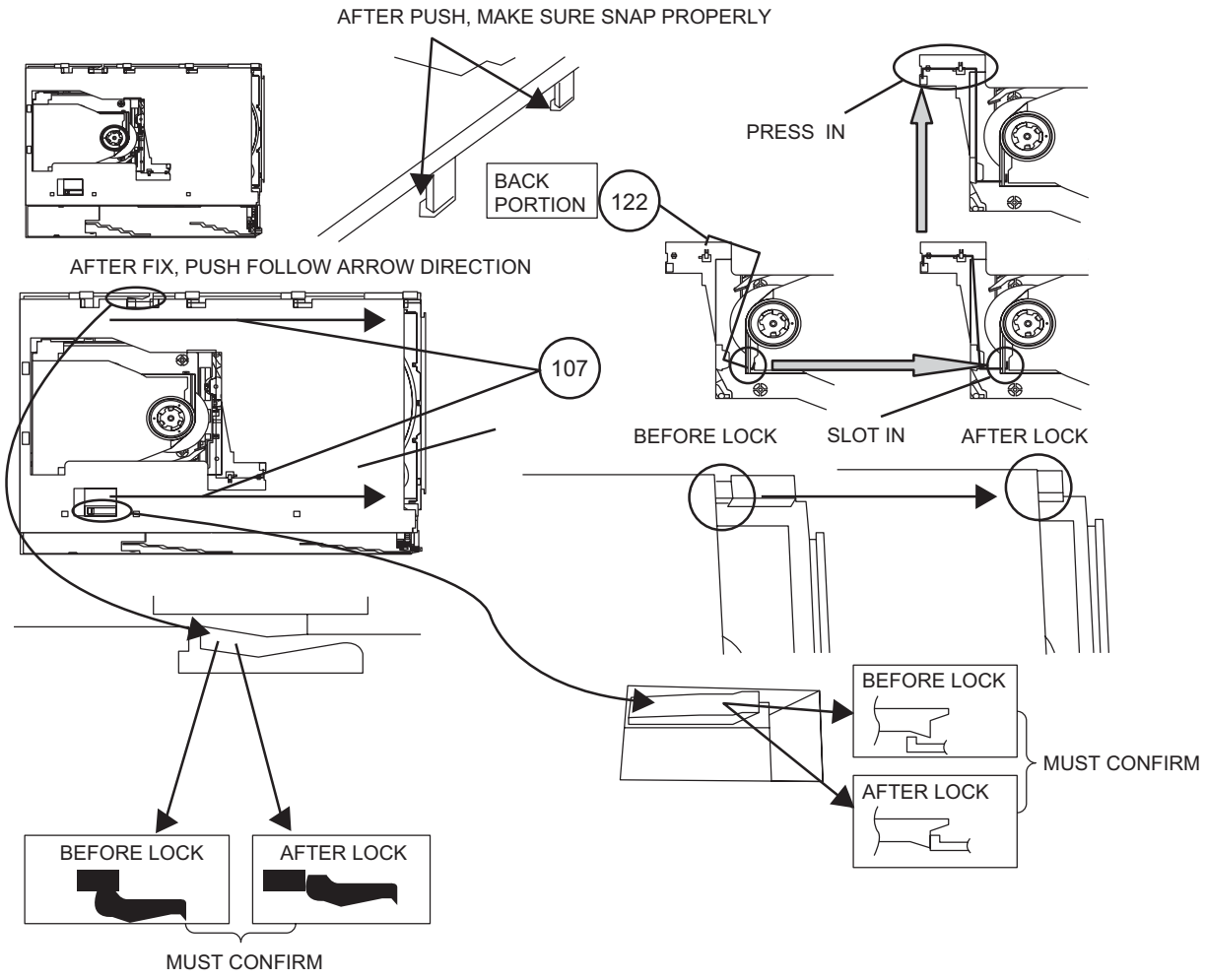


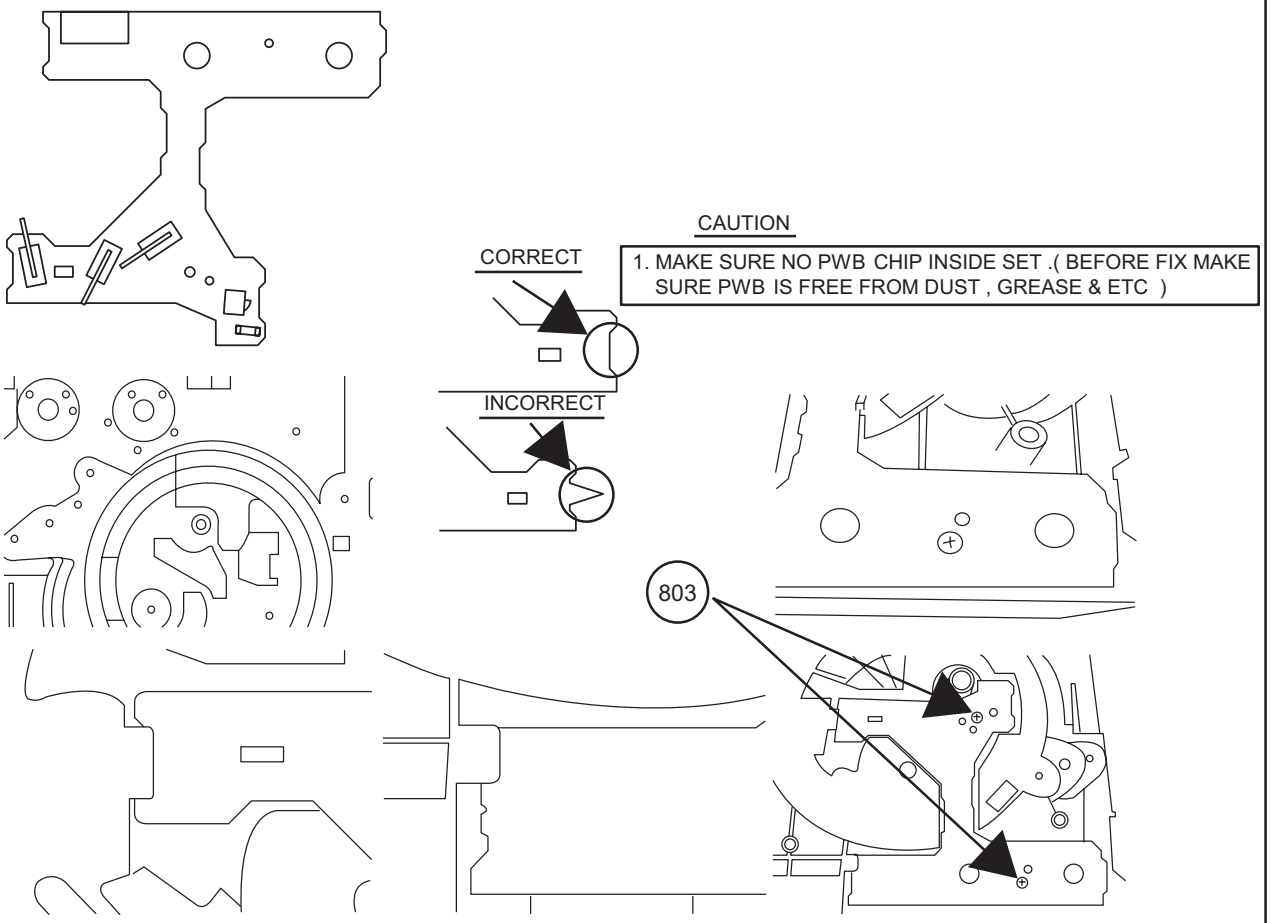
ROTATE THE GEAR TO MOVE UP 111 GEAR
UP AND DOWN BOARD BEFORE SCREW

25

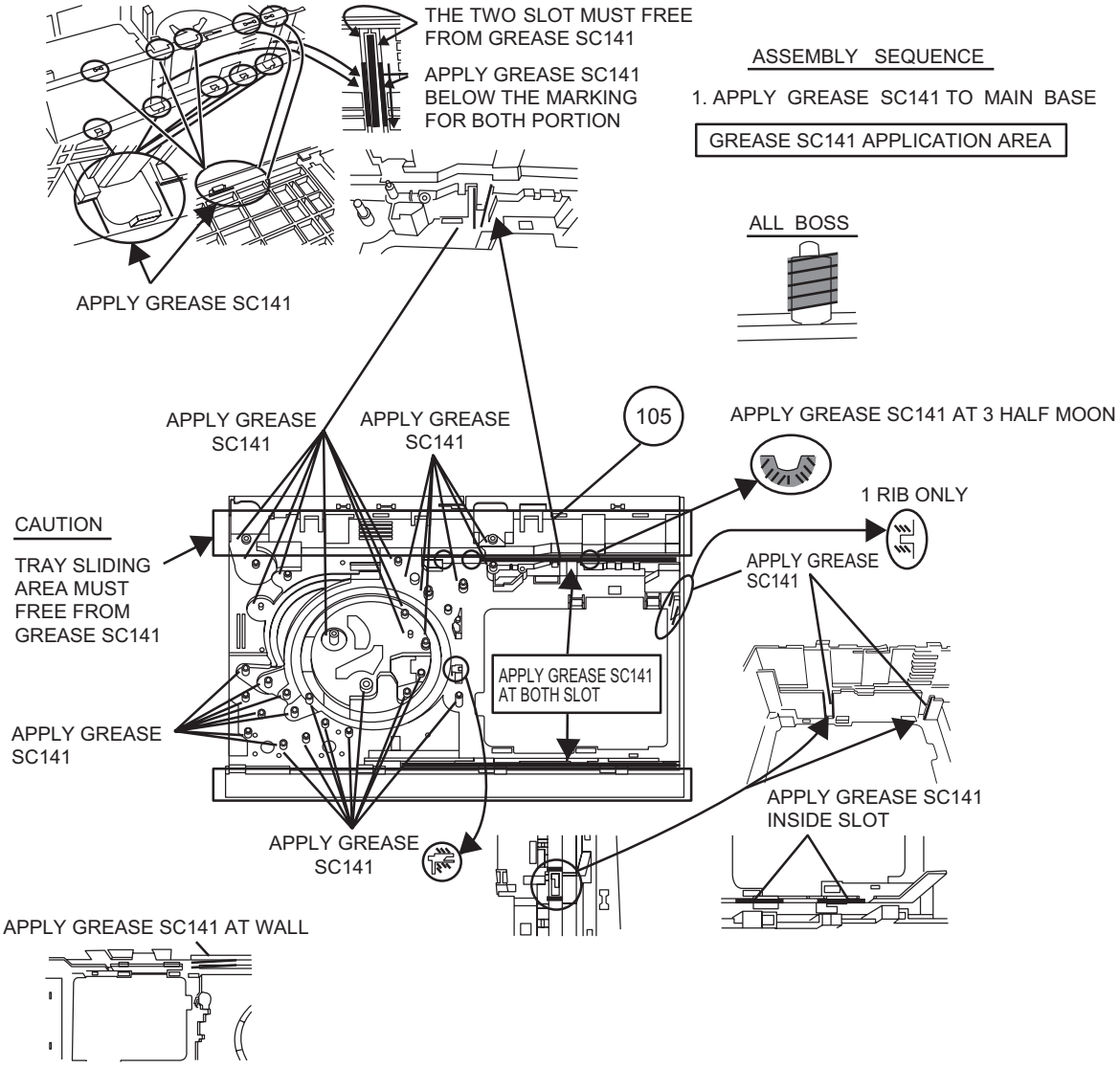

AFTER ASSEMBLY TOP PLATE
FIX THE FFC
FFC4


AFTER PUSH, MAKE SURE SNAP PROPERLY
PRESS IN
BACK
PORTION
122
AFTER FIX, PUSH FOLLOW ARROW DIRECTION
107
BEFORE LOCK
SLOT IN
AFTER LOCK
BEFORE LOCK
AFTER LOCK
MUST CONFIRM
BEFORE LOCK
AFTER LOCK
MUST CONFIRM

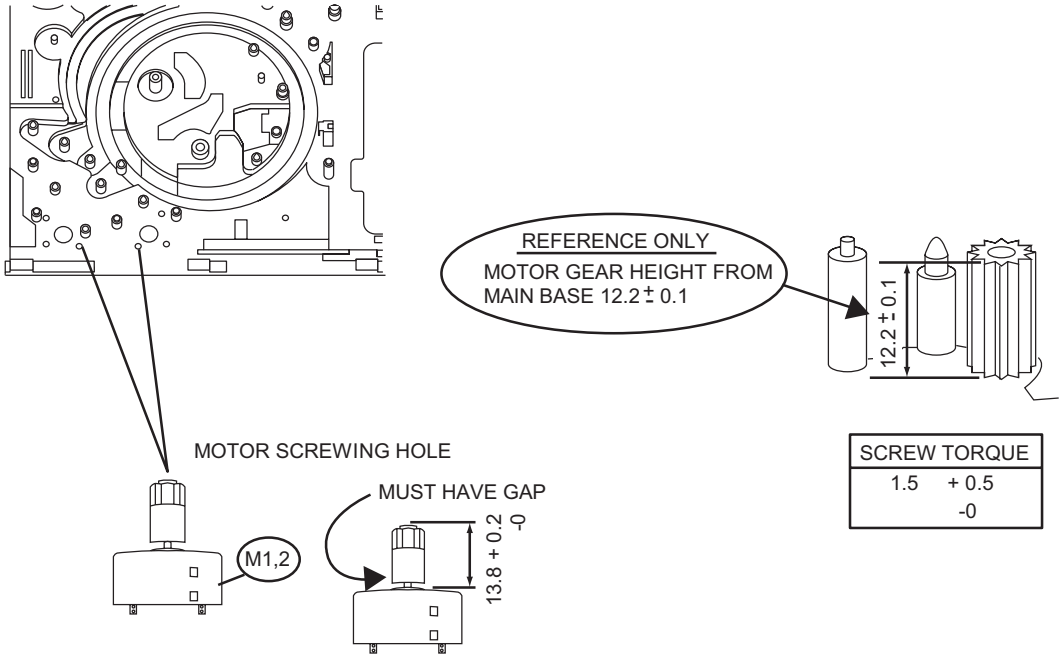
26

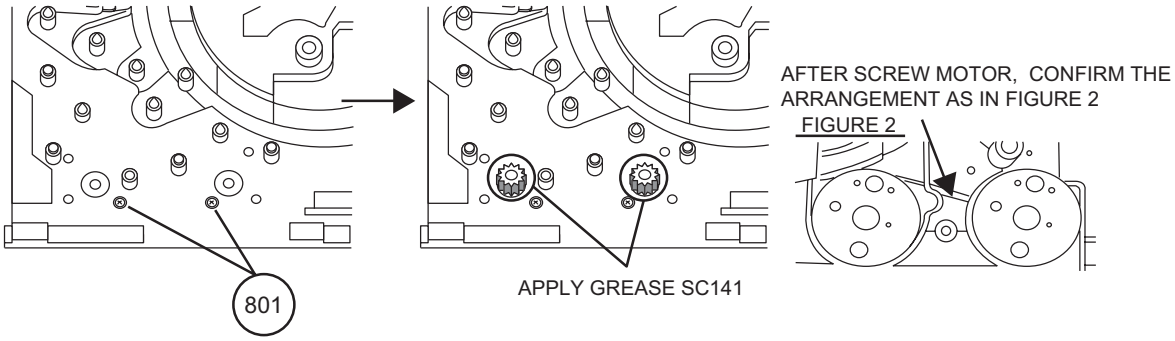

CAUTION
CORRECT
1. MAKE SURE NO PWB CHIP INSIDE SET .( BEFORE FIX MAKE SURE PWB IS FREE FROM DUST , GREASE & ETC )
INCORRECT
803

27

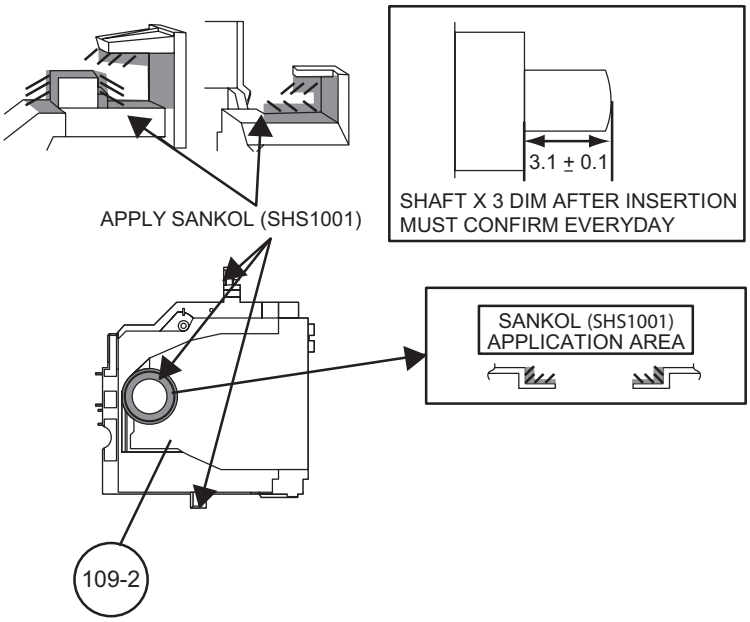

THE TWO SLOT MUST FREE FROM GREASE SC141
APPLY GREASE SC141 BELOW THE MARKING FOR BOTH PORTION
APPLY GREASE SC141
ASSEMBLY SEQUENCE
1. APPLY GREASE SC141 TO MAIN BASE
GREASE SC141 APPLICATION AREA
ALL BOSS
APPLY GREASE SC141
APPLY GREASE SC141
105
APPLY GREASE SC141 AT 3 HALF MOON
1 RIB ONLY
CAUTION
TRAY SLIDING AREA MUST FREE FROM GREASE SC141
APPLY GREASE SC141
APPLY GREASE SC141 AT BOTH SLOT
APPLY GREASE SC141
APPLY GREASE SC141
APPLY GREASE SC141 INSIDE SLOT
APPLY GREASE SC141 AT WALL

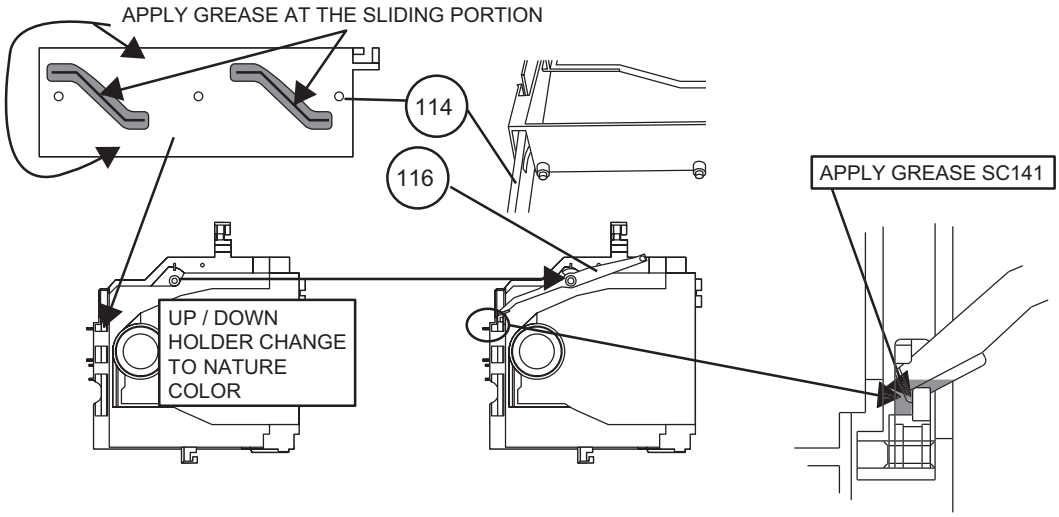
28


REFERENCE ONLY
MOTOR GEAR HEIGHT FROM
MAIN BASE 12.2 ± 0.1
12.2 ± 0.1
MOTOR SCREWING HOLE
M1,2
MUST HAVE GAP
13.8 + 0.2 -0
SCREW TORQUE
1.5 + 0.5
-0

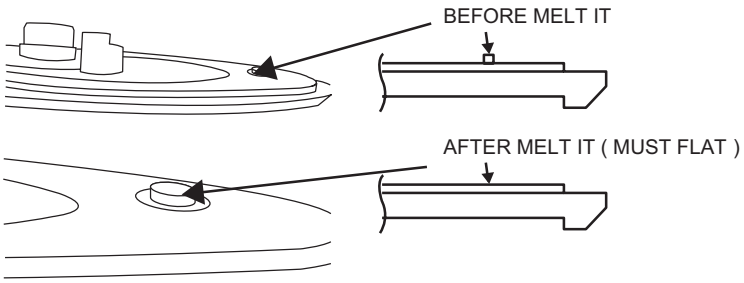

801
APPLY GREASE SC141
AFTER SCREW MOTOR, CONFIRM THE
ARRANGEMENT AS IN FIGURE 2
FIGURE 2

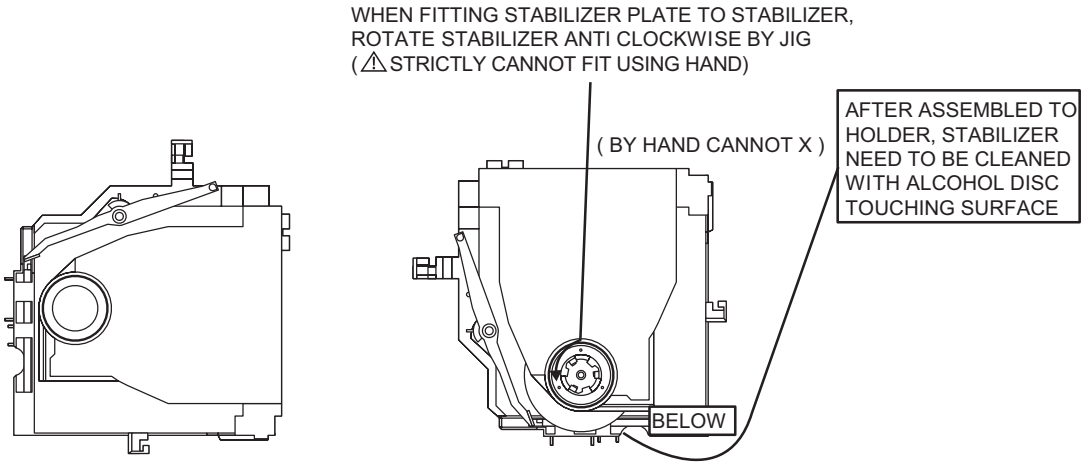
29


3.1 ± 0.1
SHAFT X 3 DIM AFTER INSERTION
MUST CONFIRM EVERYDAY
APPLY SANKOL (SHS1001)
SANKOL (SHS1001)
APPLICATION AREA
109-2

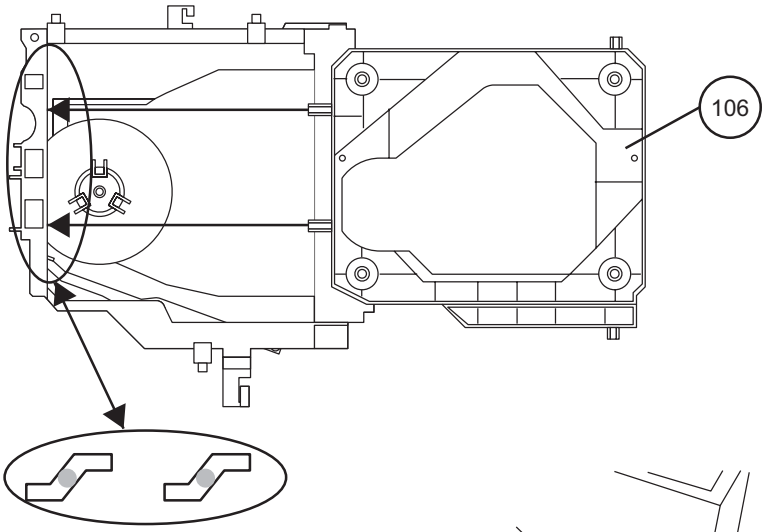

APPLY GREASE AT THE SLIDING PORTION
114
116
APPLY GREASE SC141
UP / DOWN
HOLDER CHANGE
TO NATURE
COLOR

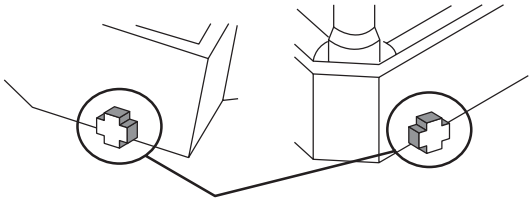
30

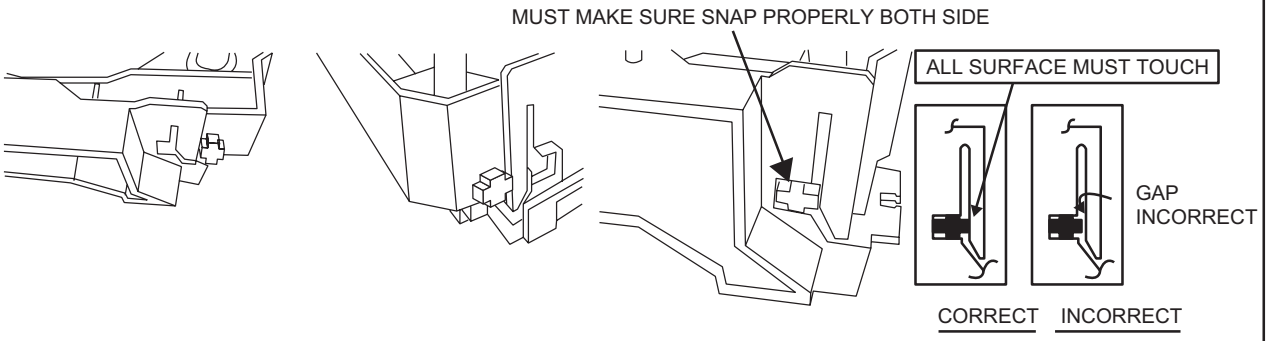

BEFORE MELT IT
AFTER MELT IT ( MUST FLAT )


WHEN FITTING STABILIZER PLATE TO STABILIZER,
ROTATE STABILIZER ANTI CLOCKWISE BY JIG
(⚠STRICTLY CANNOT FIT USING HAND)
( BY HAND CANNOT X )
AFTER ASSEMBLED TO HOLDER, STABILIZER NEED TO BE CLEANED WITH ALCOHOL DISC TOUCHING SURFACE
BELOW

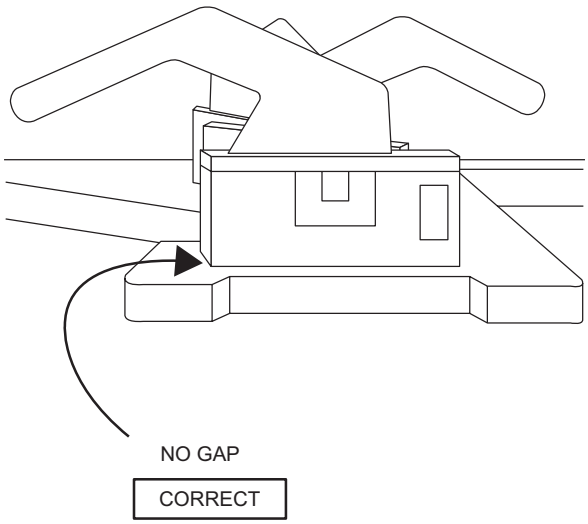
31

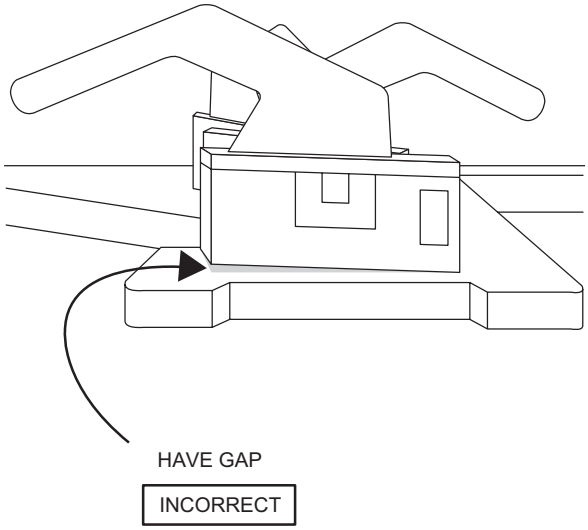

106


APPLY GREASE SC141


MUST MAKE SURE SNAP PROPERLY BOTH SIDE
ALL SURFACE MUST TOUCH
GAP
INCORRECT
CORRECT
INCORRECT

32



# CHAPTER 3. MECHANISM BLOCKS

### [1] Caution on disassembly

Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.

| STEP | REMOVAL | PROCEDURE | FIGURE |
|---|---|---|---|
| 1 | Top Cabinet | 1. Screw.....(A1) x5 | 1 |
| 2 | Side Panel (Left/ Right) | 2. Screw.....(B1) x8 | 1 |
| 3 | CD Changer unit | 1. Hook.....(C1) x2<br>2. Socket.....(C2) x1<br>3. Flat Cable.....(C3) x1 | 2 |
| 4 | Rear Panel with Fan motor | 1. Screw.....(D1) x9 | 2 |
| 5 | Front Panel | 1. Screw.....(E1) x3<br>2. Flat Cable.....(E2) x1<br>3. Socket.....(E3) x1<br>4. Hook.....(E4) x2 | 2,3<br>2<br>2<br>3 |
| 6 | Main PWB | 1. Screw.....(F1) x3<br>2. Socket.....(F2) x4 | 2<br>3 |
| 7 | Power PWB | 1. Screw.....(G1) x4 | 3 |
| 8 | Tape Mechanism | 1. Screw.....(H1) x6<br>2. Flat Cable.....(H2) x1 | 4 |
| 9 | Game Input PWB | 1. Screw.....(J1) x2 | 5 |
| 10 | Display PWB | 1. Knob.....(K1) x1<br>2. Nut.....(K2) x1<br>3. Washer.....(K3) x1<br>4. Screw.....(K4) x6 | 5 |
| 11 | CD Servo PWB | 1. Screw.....(L1) x3<br>2. Flat Cable.....(L2) x2<br>2. Socket.....(L3) x1 | 6 |
| 12 | Changer Mechanism Unit | 1. Screw.....(M1) x4<br>2. Changer Chassis...(M2) x1 | 7 |
| 15 | CD Mechanism | 1. Screw.....(N1) x4 | 8 |

Note:

After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of the connector so as to protect the optical pickup from electro-static damage.

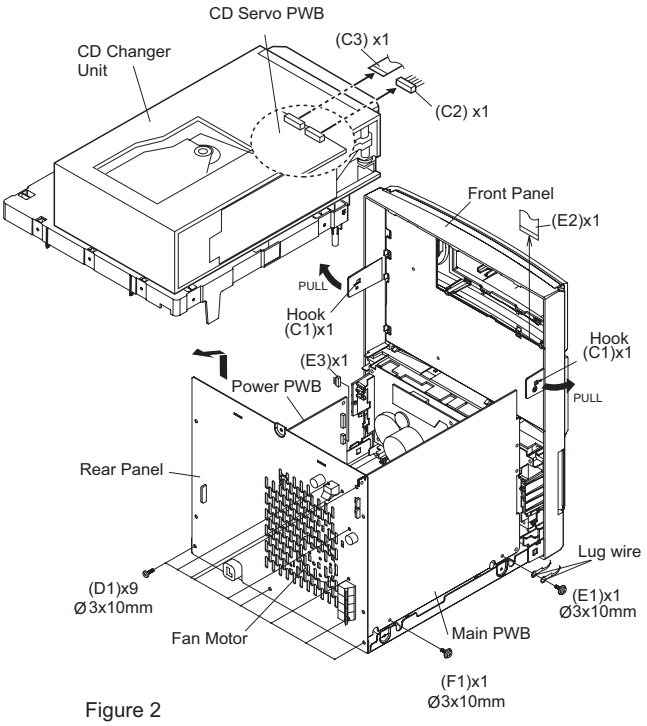



Figure 2

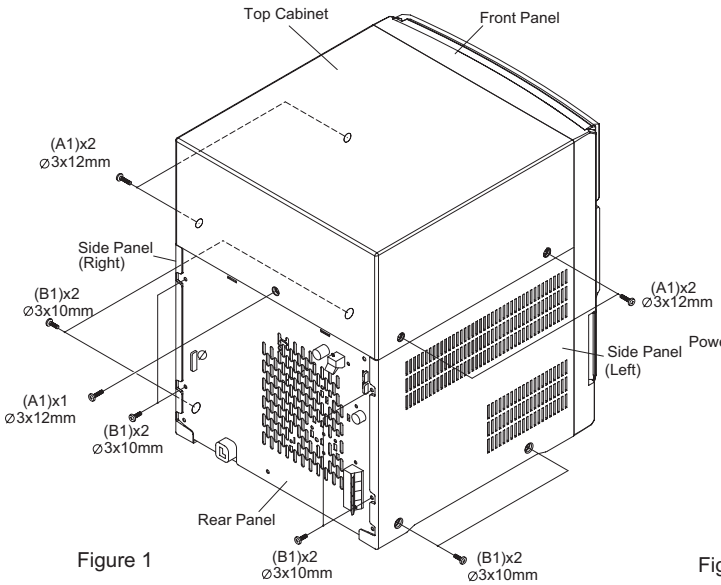



Figure 1

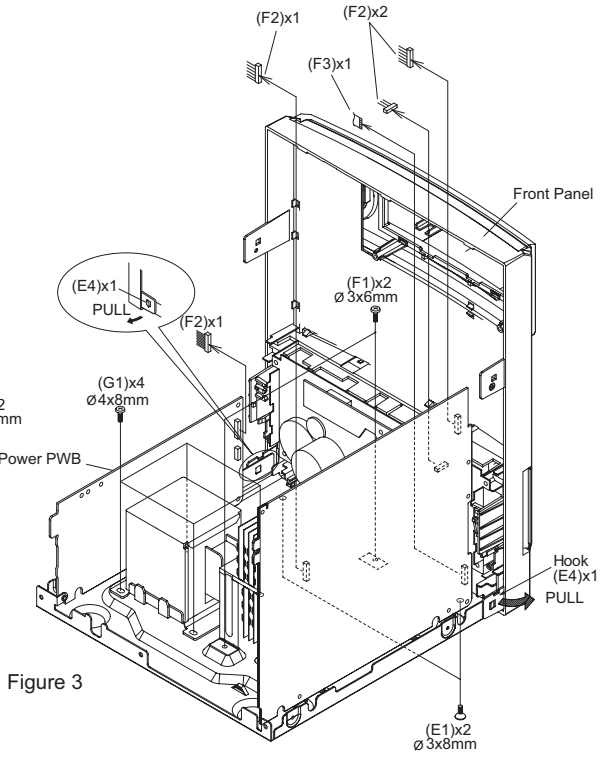



Figure 3

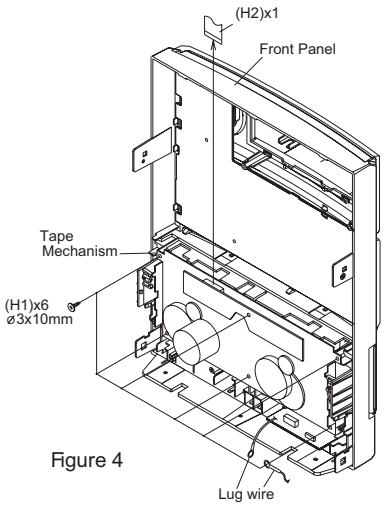



Figure 4

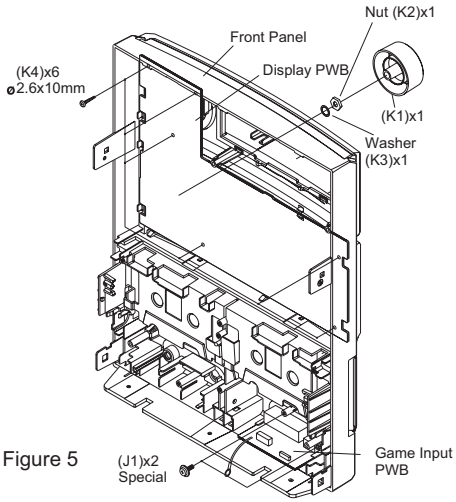



Figure 5

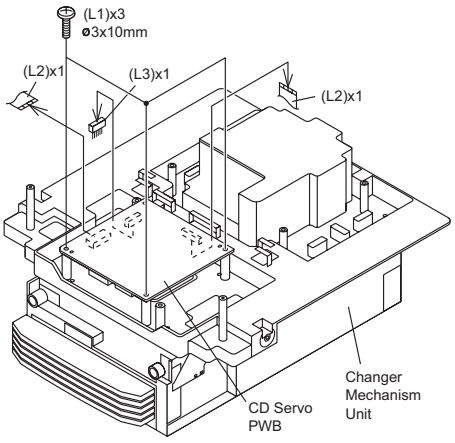



Figure 6

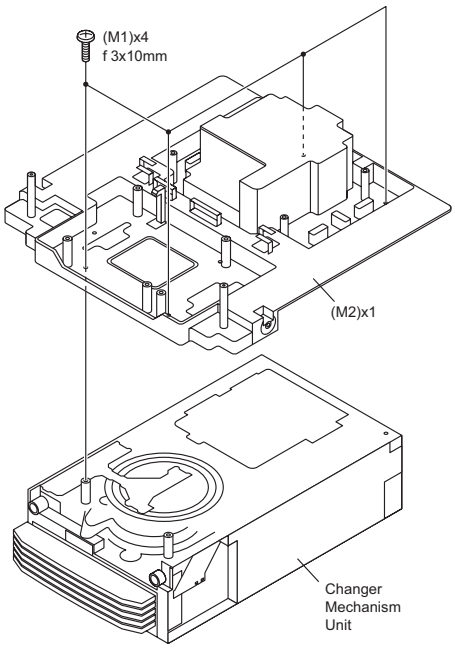



Figure 7

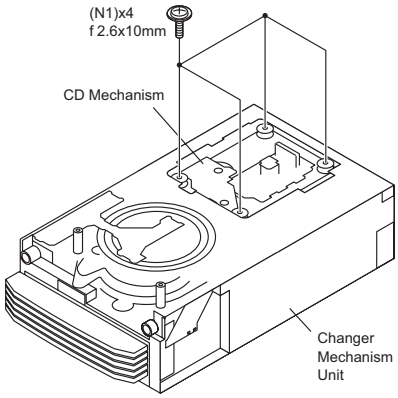



Figure 8

| STEP | REMOVAL | PROCEDURE | FIGURE |
|---|---|---|---|
| 1 | Woofer | 1. Front Panel.....(A1) x1<br>2. Socket.....(A2) x1<br>3. Screw.....(A3) x2<br>4. Screw.....(A4) x4 | 9 |
| 2 | Tweeter | 1. Screw.....(B1) x2 | |
| 3 | Super tweeter | 1. Screw.....(C1) x2 | |

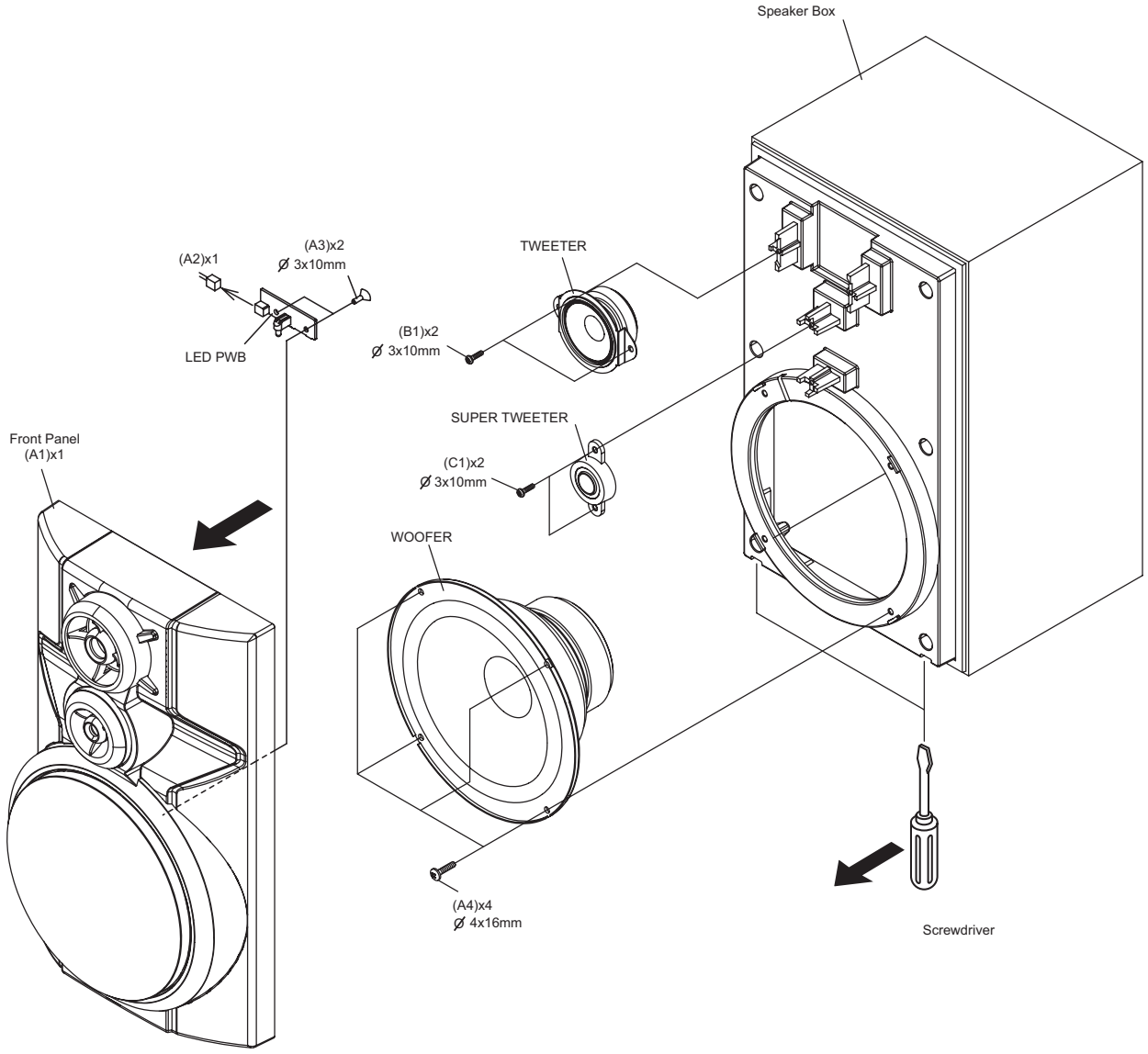



Figure 9

## [2] Removing and reinstalling the main parts

### 1. TAPE MECHANISM SECTION

Perform steps 1 to 5 and 6 of the disassembly method to remove the tape mechanism.

#### 1.1. How to remove the record/playback and erase heads (TAPE 2) (See Fig. 1)

1. When you remove the screws (A1) x 2 pcs., the recording/playback head and three-dimensional head of the erasing head can be removed.

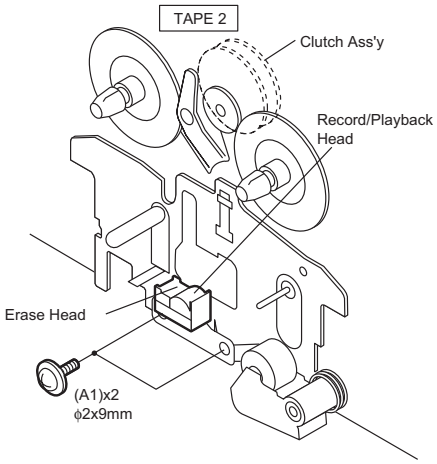



**Figure 1**

#### 1.2. How to remove the playback head (TAPE 1)(See Fig. 2)

1. When you remove the screws (B1) x 2 pcs., the playback head can be removed.

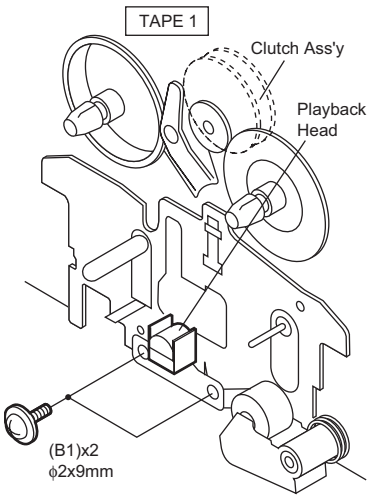



**Figure 2**

#### 1.3. How to remove the pinch roller (TAPE 1/2) (See Fig. 3)

1. Carefully bend the pinch roller pawl in the direction of the arrow <A>, and remove the pinch roller (C1) x 1 pc., in the direction of the arrow <B>.

Note:
When installing the pinch roller, pay attention to the spring mounting position.

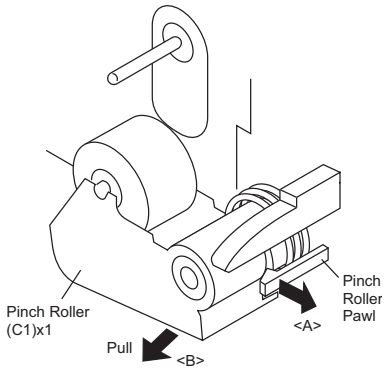



**Figure 3**

#### 1.4. How to remove the belt (TAPE 2) (See Fig. 4)

1. Remove the main belt (D1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (D2) x 1 pc.

#### 1.5. How to remove the belt (TAPE 1) (See Fig. 4)

1. Remove the main belt (E1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (E2) x 1 pc.

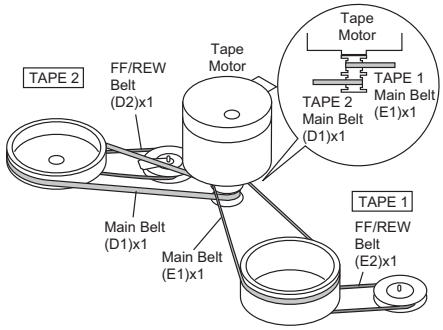



**Figure 4**

#### 1.6. How to remove the motor (See Fig. 5)

1. Remove the screws (F1) x 2 pcs., to remove the motor.

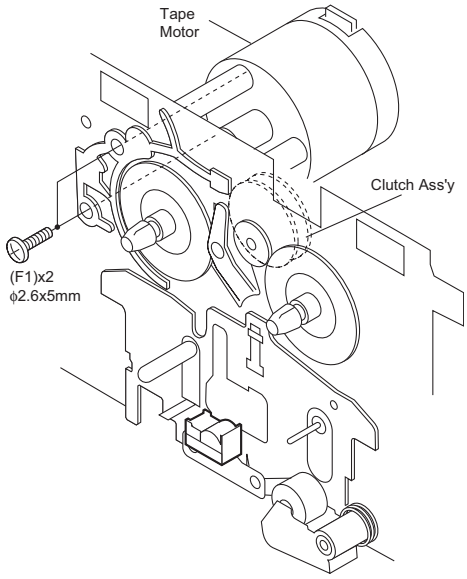



**Figure 5**

## 2. CD MECHANISM SECTION

Perform steps 1, 2, 9, 10, 11 and 12 of the disassembly method to remove the CD mechanism.

### 2.1. Remove the pickup. (See Fig. 1)

1. Remove the stop washer (A1) x 1 pc., to remove the gear (A2) x 1 pc.
2. Remove the screws (A3) x 2 pcs., to remove the shaft (A4) x 1 pc.
3. Remove the pickup.

Note

After removing the connector for the optical pickup from the connector wrap the conductive aluminium foil around the front end of connector so as to protect the optical pickup from electrostatic damage.

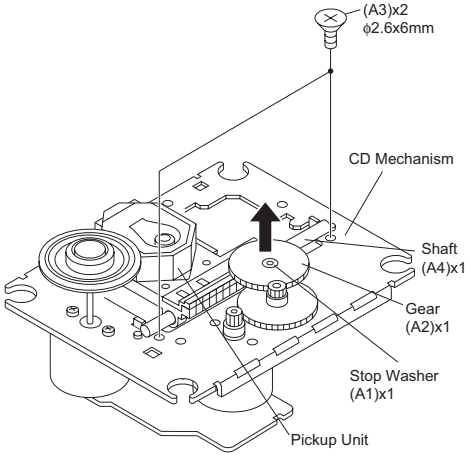


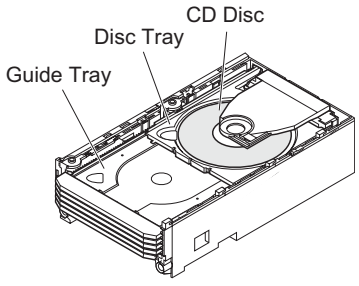

**Figure 1**

## 3. CHANGER MECHANISM SECTION

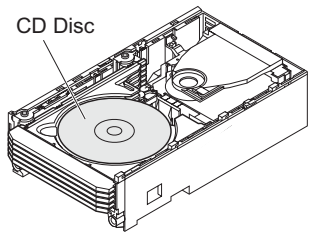
Perform steps 1, 2, 9 and 10 of the disassembly method to remove the CD changer mechanism.

### 3.1. How to remove CD Disc (See Fig. 2~5)

1. When CD is at play position (Figure 2), rotate reduction gear C clock-wise as shown in Figure 3 Until disc tray is at stock position, then rotate further to eject the disc tray so that CD can be removed from the tray.




CD at play position.




CD at stalk position.

**Figure 2**

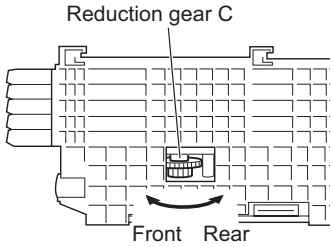



**Figure 3**

2. In another case, if CD mechanism is at tray No.1 play position and to remove CD located in tray No.3, the procedure is as follows:

   If the gear up down board is located at tray No.1 position, then rotate gear clock-wise until it at stock position. Rotate reduction gear D clockwise (Figure 4) to move the CD mechanism to tray No.3 position.This is confirmed by checking the gear up down board position by the marking as indicated on the main chassis as shown in Figure 5.

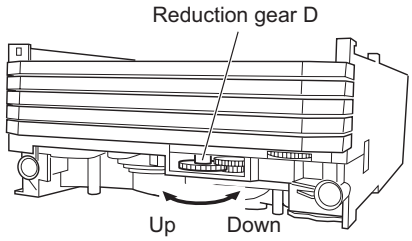



**Figure 4**

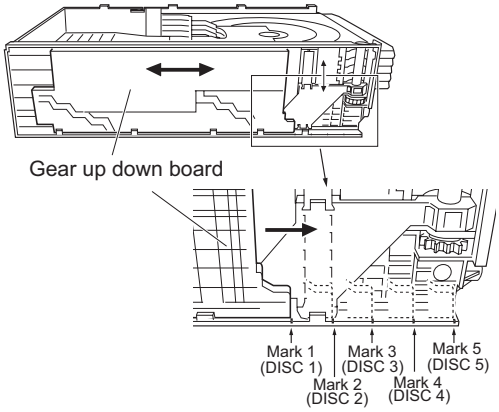



**Figure 5**

### 3.2. How to Remove the tray motor/main cam motor/5-Changer Motor PWB (See Fig. 1)

1. Remove the screws (A1) x 2 pcs., to remove tray motor/main cam motor/5-Changer Motor PWB.

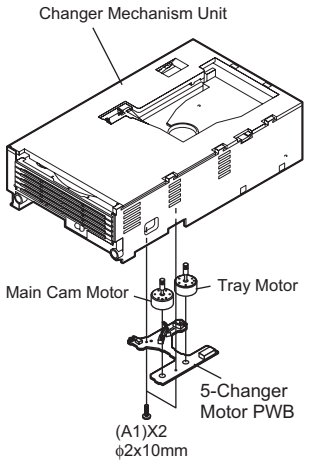



**Figure 1**

NOTE:There are 2 more screws tighten the motors at the bottom of main chassis. Before performing procedure 1 above, disc stop spring, top plate sear up down board and trays must be removed, then only the 2 screws can be untighten.

**-MEMO-**

# CHAPTER 4. DIAGRAMS

## [1] Main Block diagrams

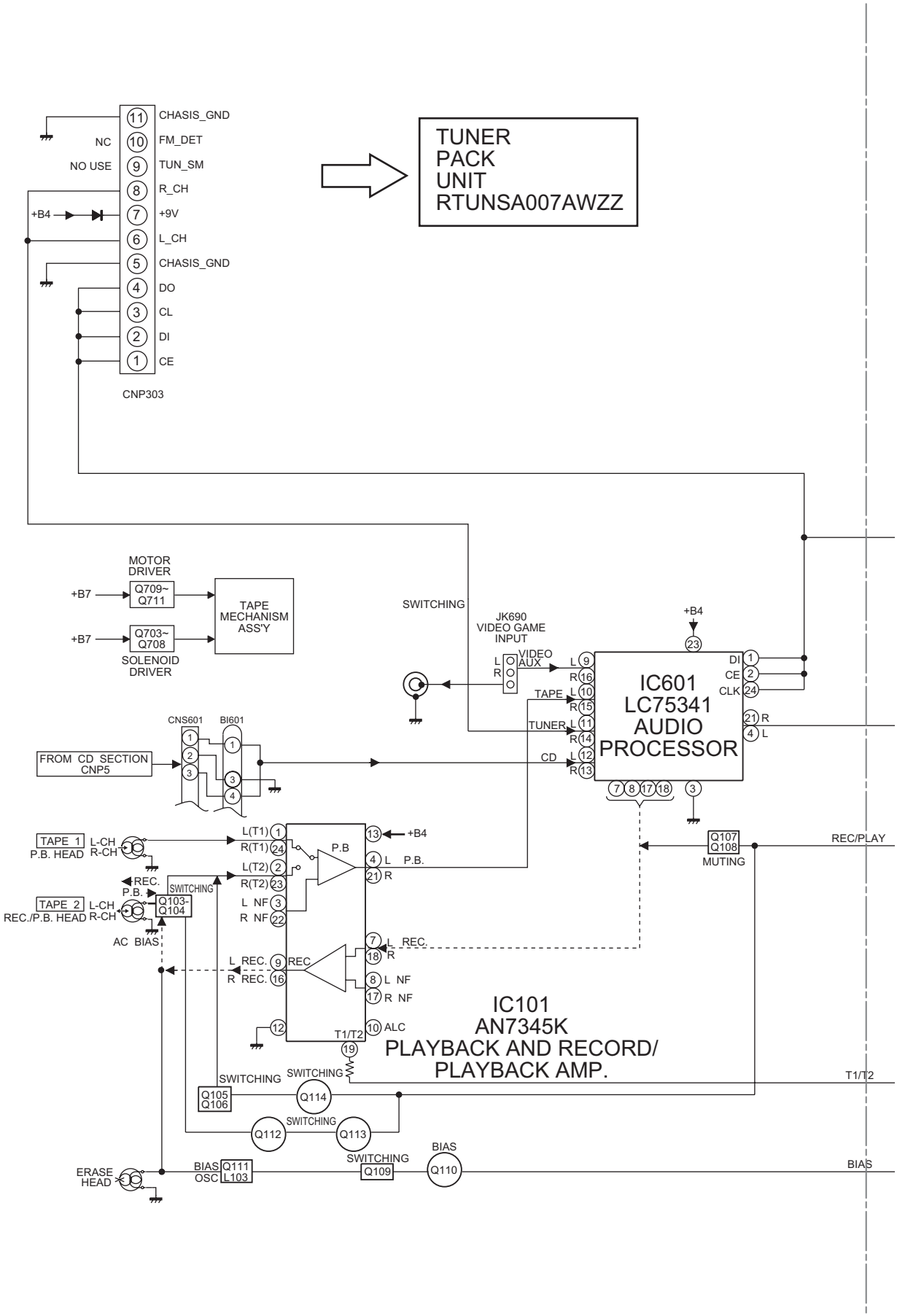



**Figure 4-1: BLOCK DIAGRAM (1/3)**

## [2] Main Block diagrams

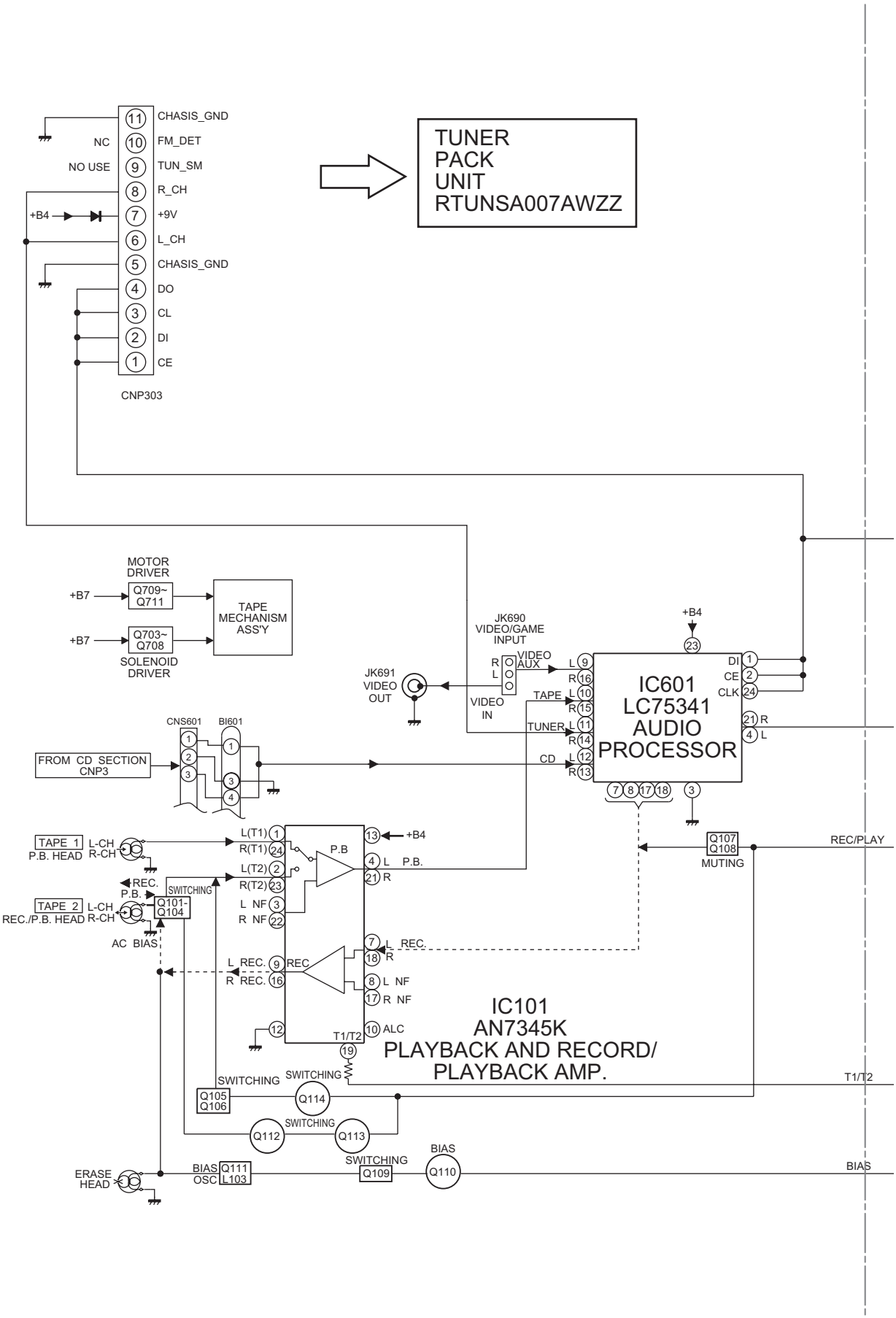



**Figure 4-1: BLOCK DIAGRAM (1/3)**

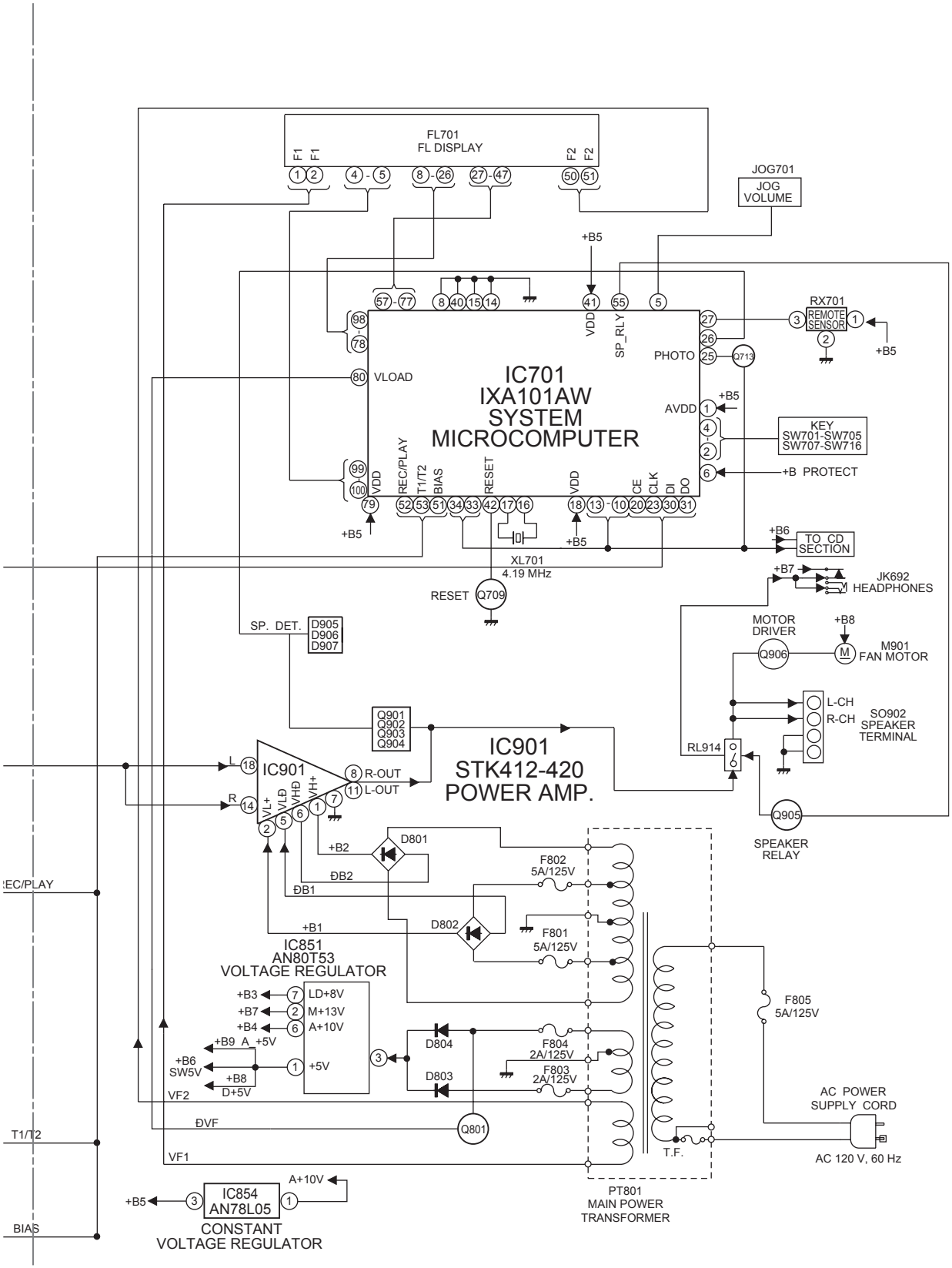


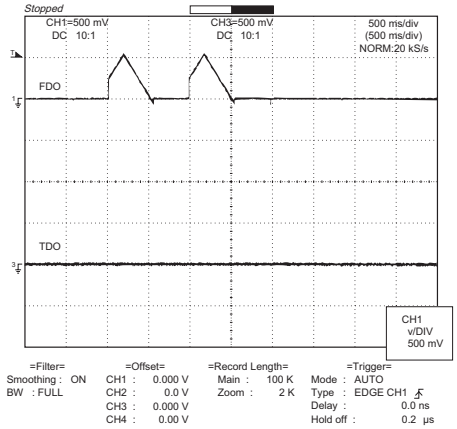

**Figure 4-2: BLOCK DIAGRAM (2/3)**

# CHAPTER 5. CIRCUIT DISCRIPTION

## [1] Waveforms of CD circuit

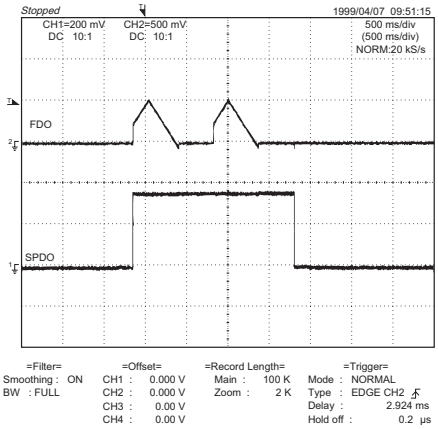
1 IC1 (22)

2 IC1 (23)



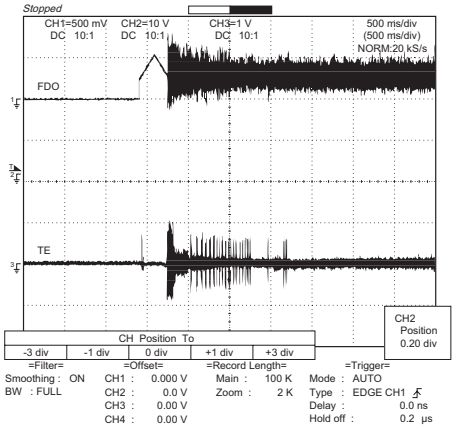

1 IC1 (22)

5 IC1 (25)




1 IC1 (22)

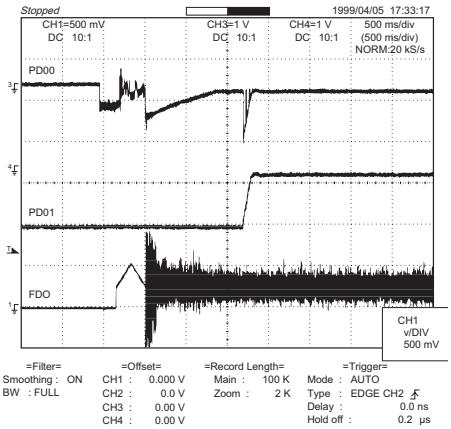
3 IC1 (16)



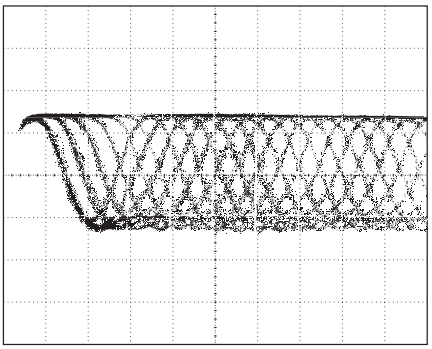

6 IC1 (28)

7 IC1 (27)

1 IC1 (22)




4 IC1 (2)



**[2] Voltage**

| IC701 | | | |
|---|---|---|---|
| PIN NO | VOLTAGE | PIN NO | VOLTAGE |
| 1 | 4.94 V | 51 | 0.00 V |
| 2 | 4.94 V | 52 | 4.40 V |
| 3 | 4.92 V | 53 | 4.38 V |
| 4 | 4.92 V | 54 | 0.00 V |
| 5 | 4.92 V | 55 | 4.39 V |
| 6 | 4.92 V | 56 | 4.43 V |
| 7 | 4.92 V | 57 | -29.05 V |
| 8 | 0.00 V | 58 | -26.42 V |
| 9 | 4.87 V | 59 | -18.41 V |
| 10 | 4.87 V | 60 | -29.08 V |
| 11 | 4.87 V | 61 | -29.08 V |
| 12 | 0.00 V | 62 | 0.00 V |
| 13 | 0.00 V | 63 | -29.08 V |
| 14 | 0.00 V | 64 | -0.92 V |
| 15 | 0.00 V | 65 | -0.96 V |
| 16 | 0.00 V | 66 | -11.10 V |
| 17 | 0.00 V | 67 | 0.00 V |
| 18 | 0.00 V | 68 | -23.60 V |
| 19 | 0.00 V | 69 | -29.00 V |
| 20 | 0.00 V | 70 | -23.60 V |
| 21 | 0.00 V | 71 | 0.00 V |
| 22 | 4.52 V | 72 | 0.00 V |
| 23 | 4.41 V | 73 | -23.60 V |
| 24 | 4.54 V | 74 | -26.20 V |
| 25 | 0.00 V | 75 | -23.60 V |
| 26 | 0.00 V | 76 | 0.00 V |
| 27 | 1.87 V | 77 | -26.40 V |
| 28 | 4.05 V | 78 | 0.00 V |
| 29 | 4.07 V | 79 | -23.60 V |
| 30 | 0.00 V | 80 | 0.00 V |
| 31 | 4.66 V | 81 | -23.61 V |
| 32 | 0.23 V | 82 | -20.84 V |
| 33 | 4.95 V | 83 | -10.43 V |
| 34 | 4.95 V | 84 | -23.50 V |
| 35 | 0.00 V | 85 | -26.40 V |
| 36 | 0.00 V | 86 | -28.93 V |
| 37 | 13.15 V | 87 | -26.40 V |
| 38 | 13.15 V | 88 | -21.10 V |
| 39 | 13.15 V | 89 | -25.12 V |
| 40 | 0.00 V | 90 | -24.99 V |
| 41 | -23.60 V | 91 | -23.01 V |
| 42 | 4.72 V | 92 | -25.00 V |
| 43 | 4.41 V | 93 | -24.98 V |
| 44 | 4.54 V | 94 | -25.00 V |
| 45 | 4.77 V | 95 | -24.85 V |
| 46 | 0.00 V | 96 | -24.92 V |
| 47 | 0.00 V | 97 | -24.89 V |
| 48 | 0.00 V | 98 | -24.82 V |
| 49 | 4.54 V | 99 | -24.87 V |
| 50 | 0.00 V | 100 | -24.63 V |

| IC 601 | |
|---|---|
| PIN NO | VOLTAGE |
| 1 | 0 |
| 2 | 0 |
| 3 | 0 |
| 4 | 4.98 |
| 5 | 4.95 |
| 6 | 4.96 |
| 7 | 4.99 |
| 8 | 4.96 |
| 9 | 4.96 |
| 10 | 4.99 |
| 11 | 4.96 |
| 12 | 4.96 |
| 13 | 4.96 |
| 14 | 4.96 |
| 15 | 4.96 |
| 16 | 4.96 |
| 17 | 4.99 |
| 18 | 4.96 |
| 19 | 4.96 |
| 20 | 4.96 |
| 21 | 4.96 |
| 22 | 4.98 |
| 23 | 9.95 |
| 24 | 0 |

| IC 901 | |
|---|---|
| PIN NO | VOLTAGE |
| 1 | 58.3 |
| 2 | 24.85 |
| 3 | 12.79 |
| 4 | -12.85 |
| 5 | -24.75 |
| 6 | -58.9 |
| 7 | 0 |
| 8 | 0 |
| 9 | 0 |
| 10 | 0 |
| 11 | 0 |
| 12 | -57.4 |
| 13 | 57.6 |
| 14 | 0 |
| 15 | 0 |
| 16 | -56.01 |
| 17 | 0 |
| 18 | 0 |

| IC 851 | |
|---|---|
| PIN NO | VOLTAGE |
| 1 | 5.06 |
| 2 | 12.83 |
| 3 | 19.6 |
| 4 | 0 |
| 5 | 18.28 |
| 6 | 9.92 |
| 7 | 8.4 |

| IC1 | | | |
|---|---|---|---|
| PIN NO | VOLTAGE | PIN NO | VOLTAGE |
| 1 | 1.56 V | 51 | 3.21 V |
| 2 | 1.69 V | 52 | 3.21 V |
| 3 | 1.67 V | 53 | 0.00 V |
| 4 | 1.52 V | 54 | 0.00 V |
| 5 | 1.62 V | 55 | 0.00 V |
| 6 | 1.62 V | 56 | 0.00 V |
| 7 | 1.62 V | 57 | 0.00 V |
| 8 | 1.62 V | 58 | 0.00 V |
| 9 | 1.61 V | 59 | 0.00 V |
| 10 | 1.61 V | 60 | 3.12 V |
| 11 | 1.61 V | 61 | 3.10 V |
| 12 | 0.00 V | 62 | 1.53 V |
| 13 | 1.61 V | 63 | 0.00 V |
| 14 | 1.61 V | 64 | 0.00 V |
| 15 | 1.61 V | 65 | 0.00 V |
| 16 | 1.61 V | 66 | 1.83 V |
| 17 | 1.61 V | 67 | 0.00 V |
| 18 | 3.20 V | 68 | 3.22 V |
| 19 | 0.00 V | 69 | 0.00 V |
| 20 | 0.00 V | 70 | 0.00 V |
| 21 | 3.20 V | 71 | 0.00 V |
| 22 | 1.62 V | 72 | 1.28 V |
| 23 | 1.61 V | 73 | 1.41 V |
| 24 | 1.61 V | 74 | 3.08 V |
| 25 | 1.62 V | 75 | 1.58 V |
| 26 | 0.00 V | 76 | 3.17 V |
| 27 | 0.00 V | 77 | 0.00 V |
| 28 | 2.88 V | 78 | 1.58 V |
| 29 | 0.98 V | 79 | 3.20 V |
| 30 | 3.12 V | 80 | 1.56 V |
| 31 | 0.00 V | | |
| 32 | 3.23 V | | |
| 33 | 0.00 V | | |
| 34 | 0.00 V | | |
| 35 | 3.22 V | | |
| 36 | 3.22 V | | |
| 37 | 0.00 V | | |
| 38 | 1.83 V | | |
| 39 | 3.17 V | | |
| 40 | 0.00 V | | |
| 41 | 3.21 V | | |
| 42 | 0.00 V | | |
| 43 | 0.00 V | | |
| 44 | 2.97 V | | |
| 45 | 2.94 V | | |
| 46 | 0.93 V | | |
| 47 | 3.21 V | | |
| 48 | 3.22 V | | |
| 49 | 3.22 V | | |
| 50 | 3.21 V | | |

| IC101 | |
|---|---|
| PIN NO | VOLTAGE |
| 1 | 0 |
| 2 | 0 |
| 3 | 0 |
| 4 | 2 |
| 5 | 2 |
| 6 | 1.32 |
| 7 | 0 |
| 8 | 0.6 |
| 9 | 3.48 |
| 10 | 3.44 |
| 11 | 0 |
| 12 | 0 |
| 13 | 6.9 |
| 14 | 4.18 |
| 15 | 0 |
| 16 | 3.45 |
| 17 | 0.6 |
| 18 | 0 |
| 19 | 2.59 |
| 20 | 2 |
| 21 | 2 |
| 22 | 0 |
| 23 | 0 |
| 24 | 0 |

| IC2 | |
|---|---|
| PIN NO | VOLTAGE |
| 1 | 2.04 V |
| 2 | 2.03 V |
| 3 | 2.04 V |
| 4 | 2.03 V |
| 5 | 2.03 V |
| 6 | 2.04 V |
| 7 | 0.00 V |
| 8 | 4.15 V |
| 9 | 4.80 V |
| 10 | 3.23 V |
| 11 | 1.61 V |
| 12 | 1.61 V |
| 13 | 1.61 V |
| 14 | 1.61 V |
| 15 | 1.61 V |
| 16 | 1.61 V |
| 17 | 1.61 V |
| 18 | 1.61 V |
| 19 | 4.30 V |
| 20 | 4.30 V |
| 21 | 3.07 V |
| 22 | 3.17 V |
| 23 | 3.17 V |
| 24 | 2.84 V |
| 25 | 1.61 V |
| 26 | 0.00 V |
| 27 | 4.77 V |
| 28 | 7.69 V |
| 29 | 4.74 V |
| 30 | 0.00 V |
| 31 | 0.00 V |
| 32 | 0.00 V |
| 33 | 0.00 V |
| 34 | 0.00 V |
| 35 | 2.03 V |
| 36 | 2.03 V |

| IC 503 | |
|---|---|
| PIN NO | VOLTAGE |
| 1 | 2.55 |
| 2 | 2.55 |
| 3 | 2.55 |
| 4 | 0 |
| 5 | 2.49 |
| 6 | 2.69 |
| 7 | 1.34 |
| 8 | 12.66 |

**-MEMO-**

# CHAPTER 6. CIRCUIT SCHEMATICS AND PARTS LAYOUT

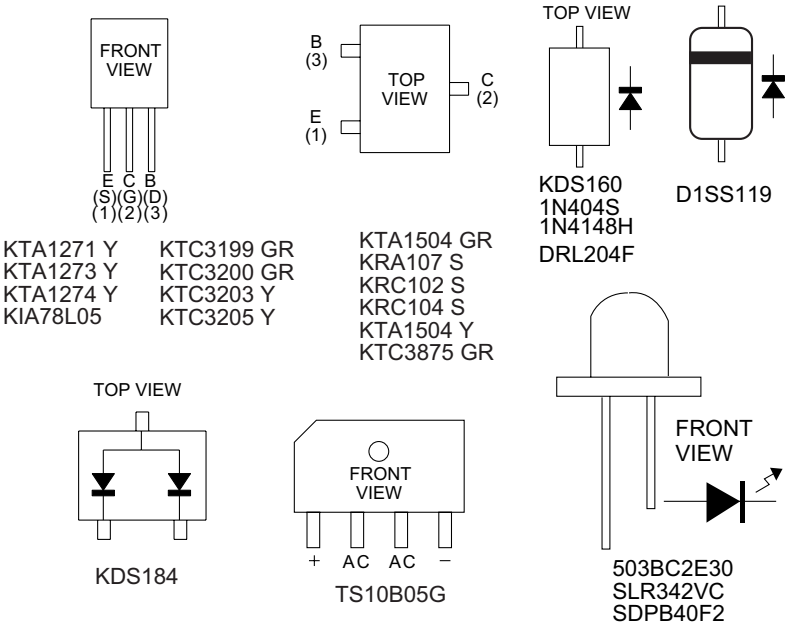
### [1] Notes on schematic diagram

- Resistor:
  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with “Fusible” is a fuse type.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means pico-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression “capacitance/withstand voltage” is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type
  (P.P.): Polypropylene type
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
  1. In the tuner section,
     indicates AM
     indicates FM stereo
  2. In the main section, a tape is being played back.
  3. In the deck section, a tape is being played back.
     ( ) indicates the record state.
  4. In the power section, a tape is being played back.
  5. In the CD section, the CD is stopped.
- Parts marked with “ ⚠ “ ( ⊏ ニ ニ ニ コ ) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

| REF. NO | DESCRIPTION | POSITION |
|---|---|---|
| JOG701 | VOLUME | MAX—MIN |
| SW701 | POWER ON /STAND-BY | ON—OFF |
| SW702 | CD | ON—OFF |
| SW703 | TUNER (BAND) | ON—OFF |
| SW704 | AUX | ON—OFF |
| SW705 | TAPE | ON—OFF |
| SW707 | PLAY | ON—OFF |
| SW708 | FAST FORWARD/PRESET UP | ON—OFF |

| REF. NO | DESCRIPTION | POSITION |
|---|---|---|
| SW709 | FAST REWIND/PRESET DOWN | ON—OFF |
| SW710 | STOP | ON—OFF |
| SW711 | DISC 1 | ON—OFF |
| SW712 | DISC 2 | ON—OFF |
| SW713 | DISC 3 | ON—OFF |
| SW714 | DISC 4 | ON—OFF |
| SW715 | DISC 5 | ON—OFF |
| SW716 | OPEN/CLOSE | ON—OFF |

### [2] Types of transistor and LED



## [3] SCHEMATIC DIAGRAM

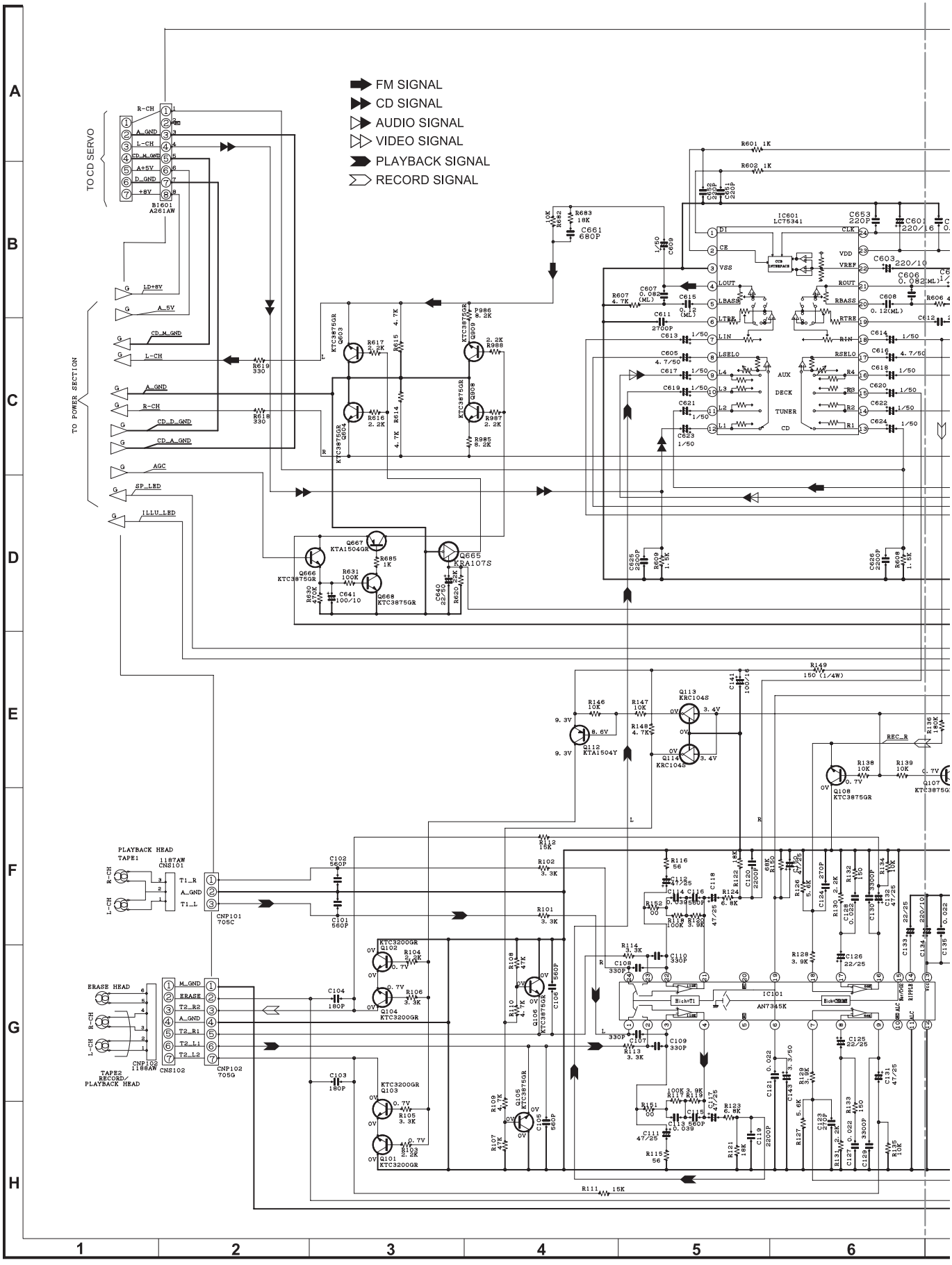



**Figure 6-2: MAIN SCHEMATIC DIAGRAM (1/2)**

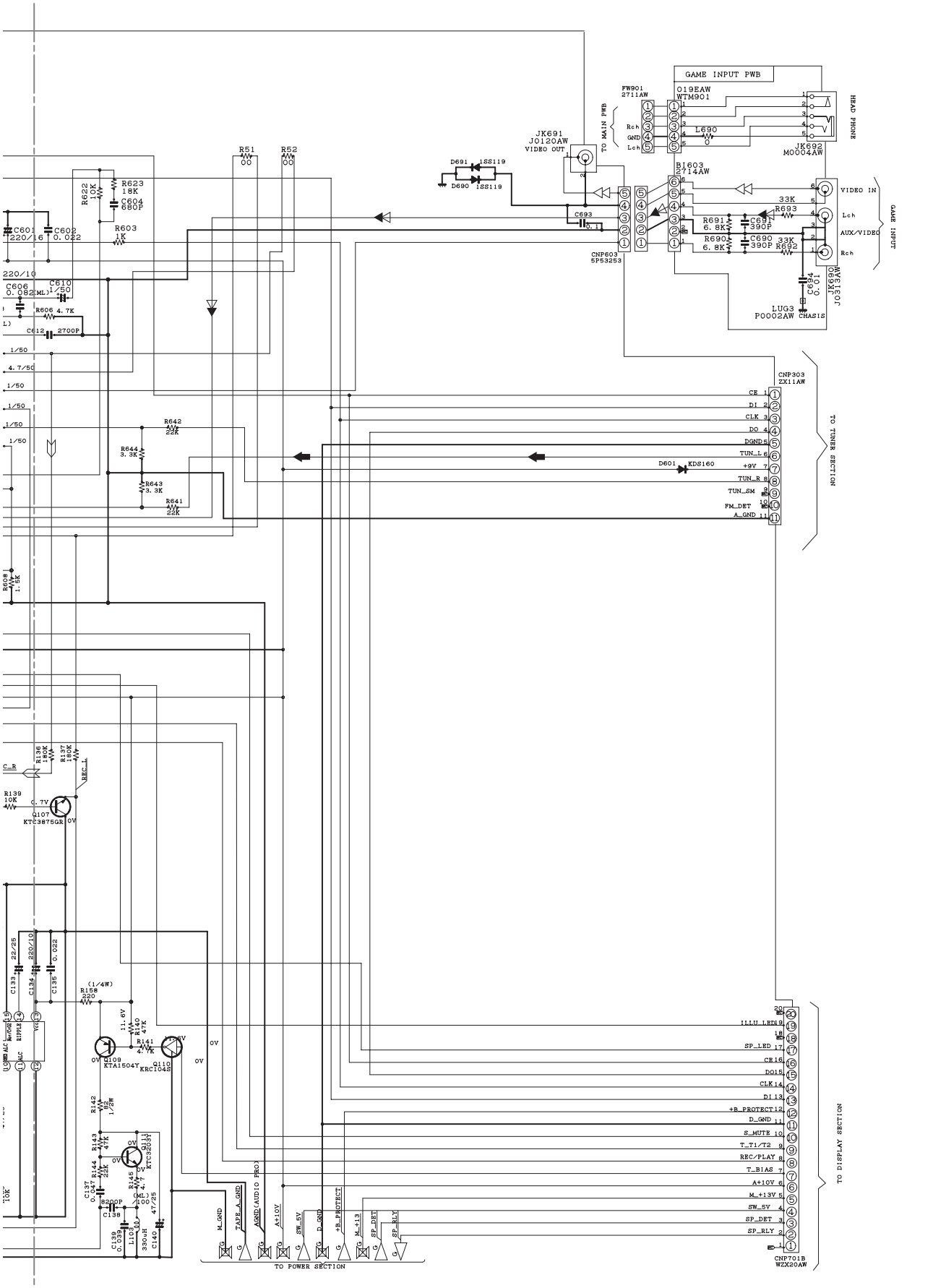



**Figure 6-3: MAIN SCHEMATIC DIAGRAM (2/8)**

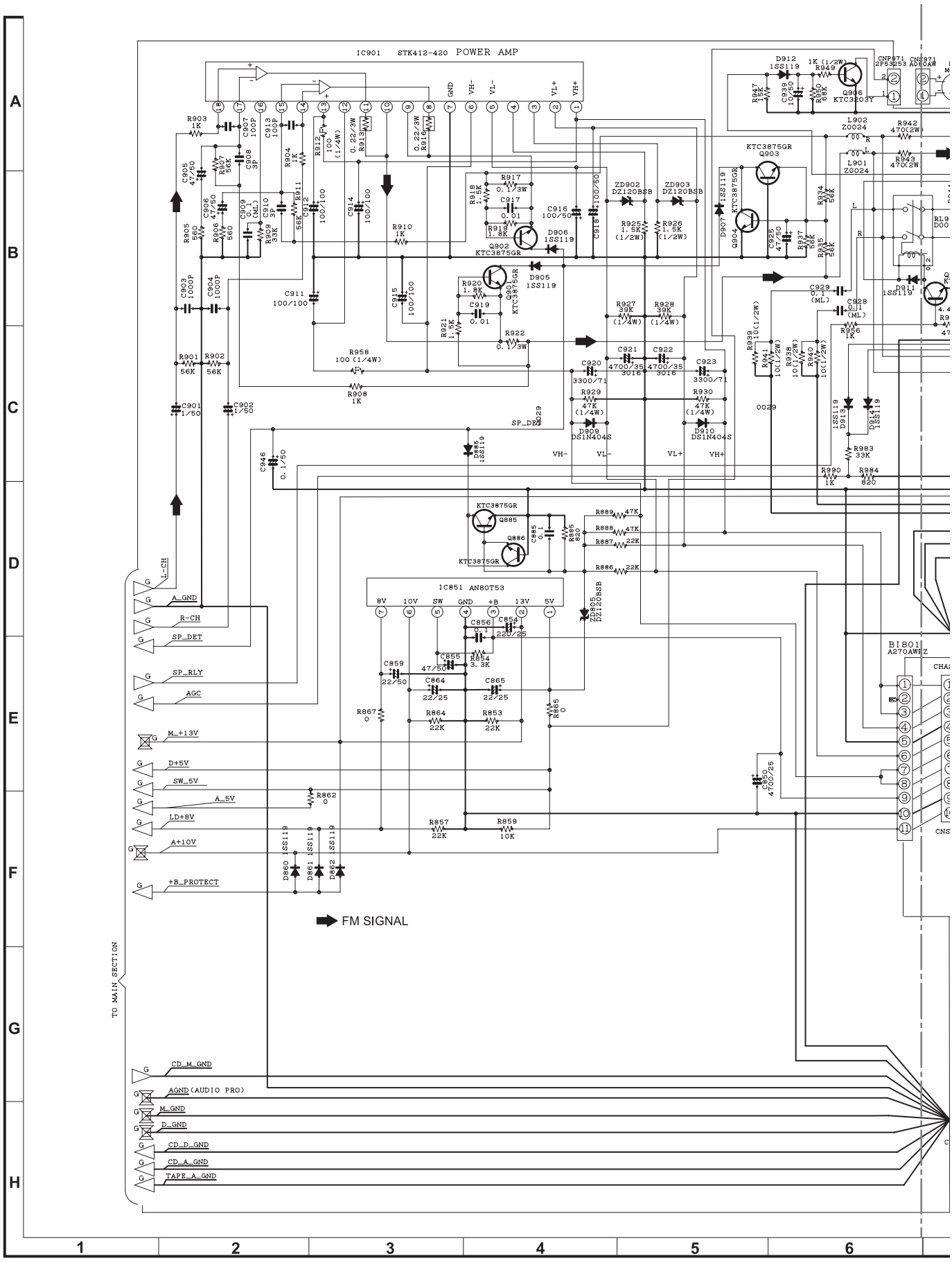



**Figure 6-4: POWER SCHEMATIC DIAGRAM (3/8)**

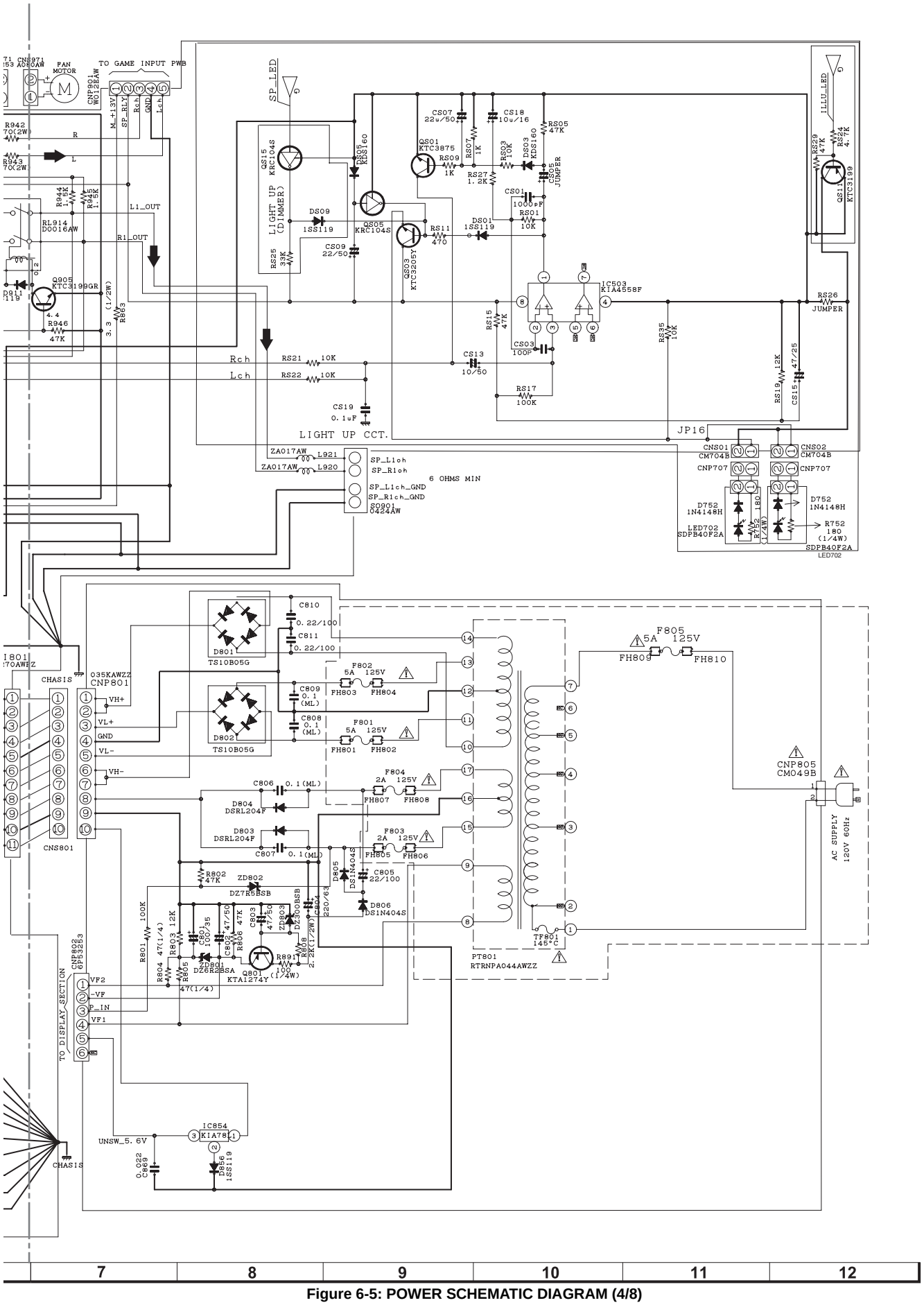



**Figure 6-5: POWER SCHEMATIC DIAGRAM (4/8)**

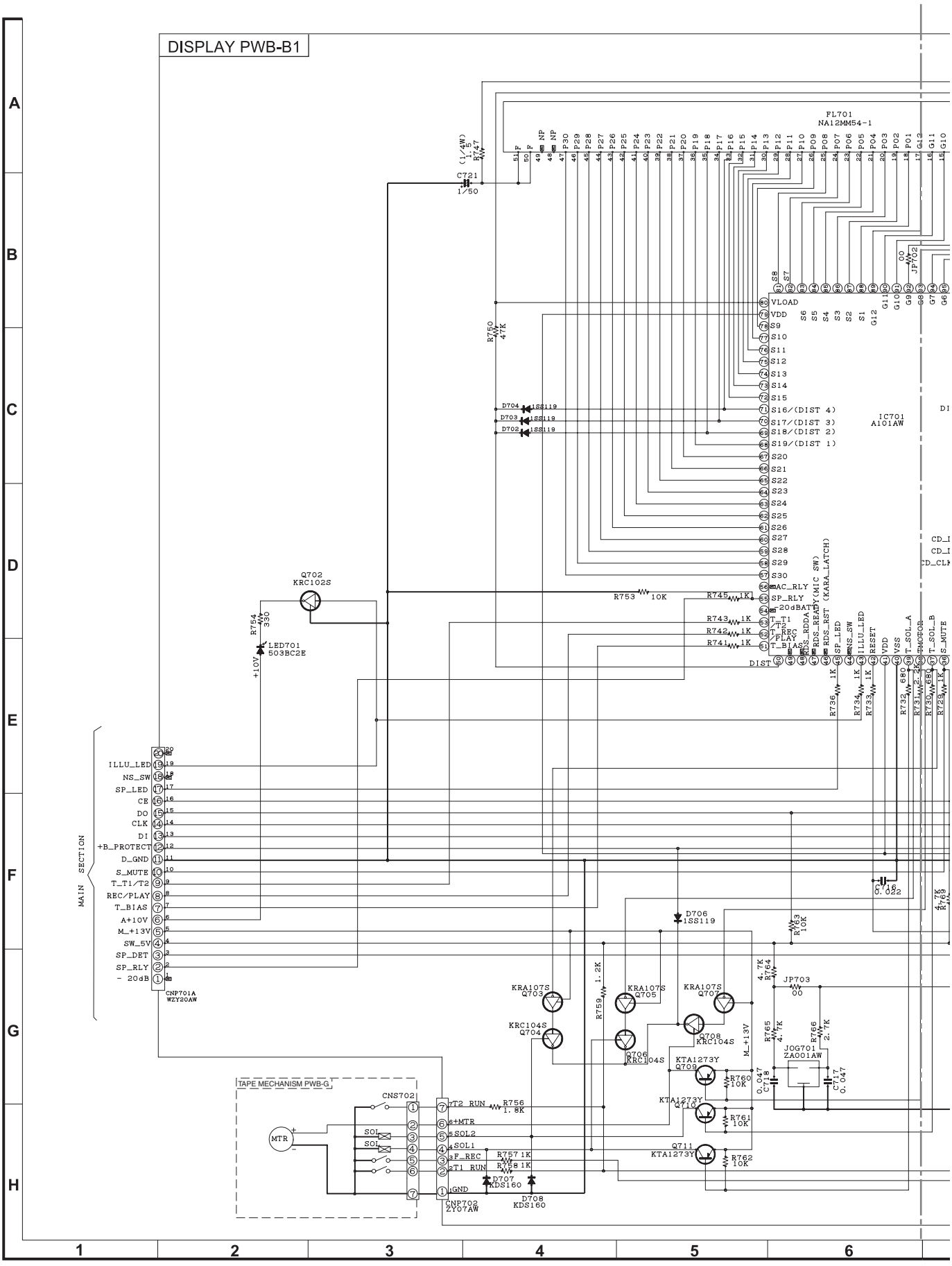



**Figure 6-6: DISPLAY SCHEMATIC DIAGRAM (5/8)**

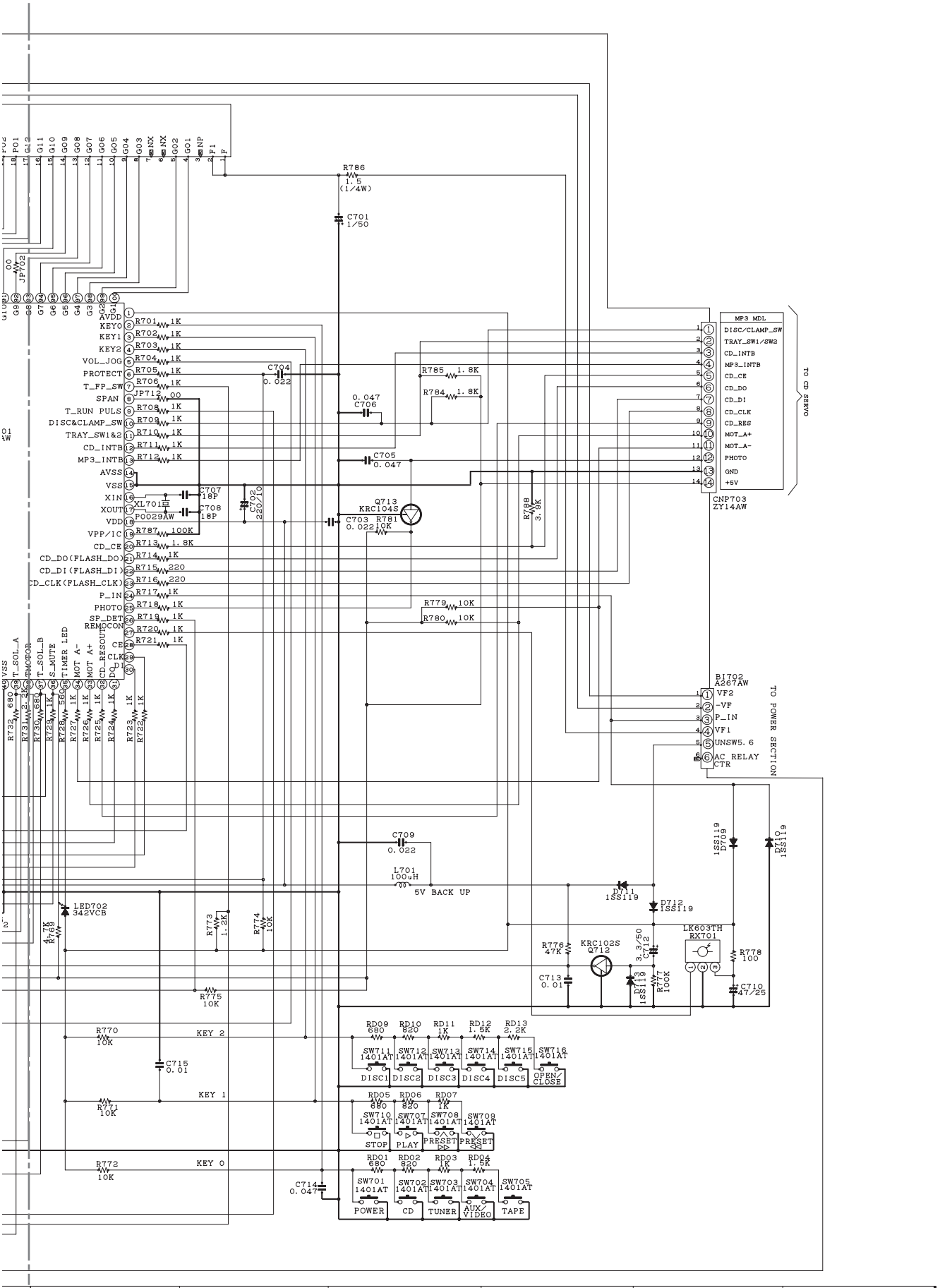



**Figure 6-7: DISPLAY SCHEMATIC DIAGRAM (6/8)**

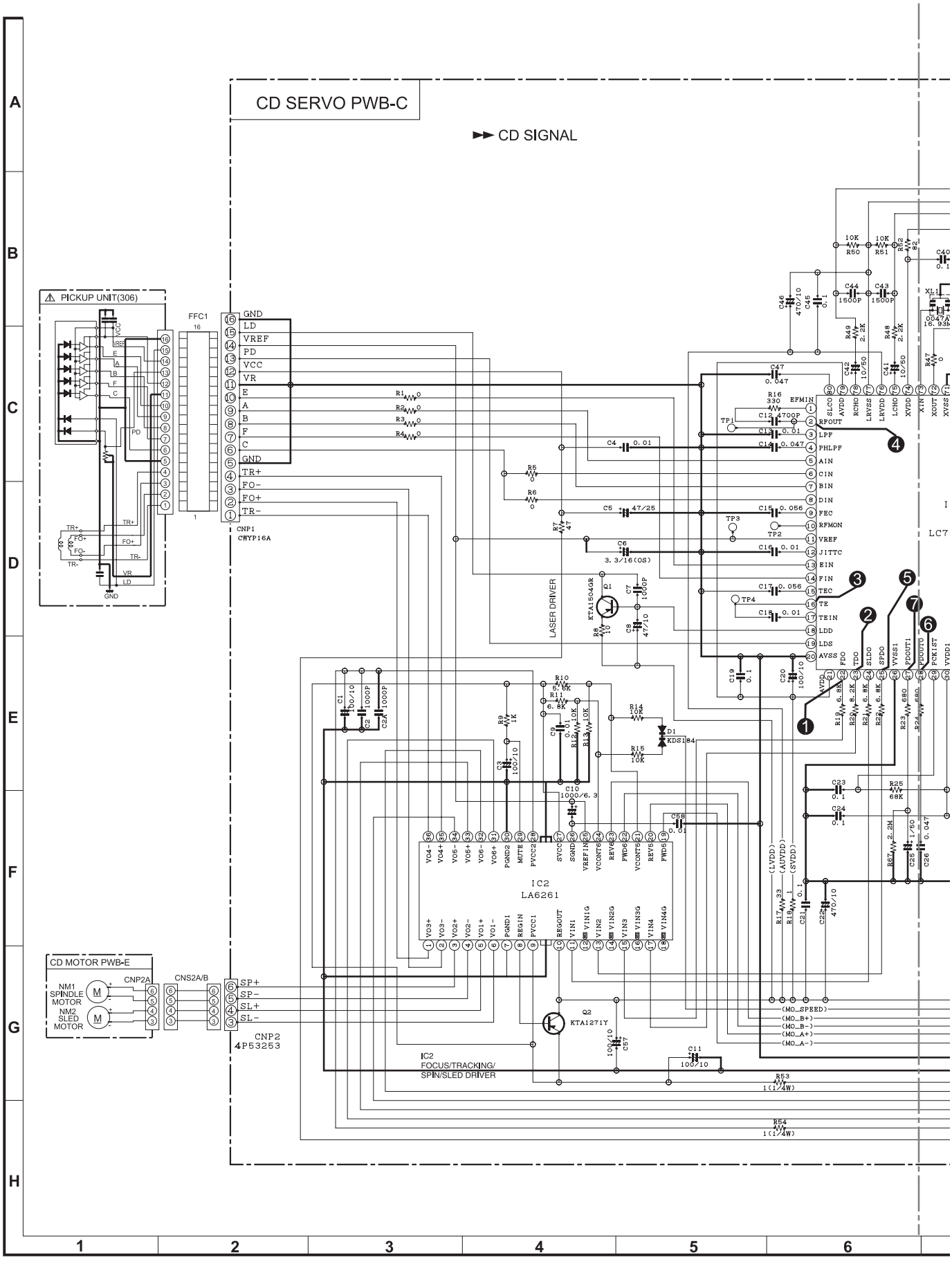
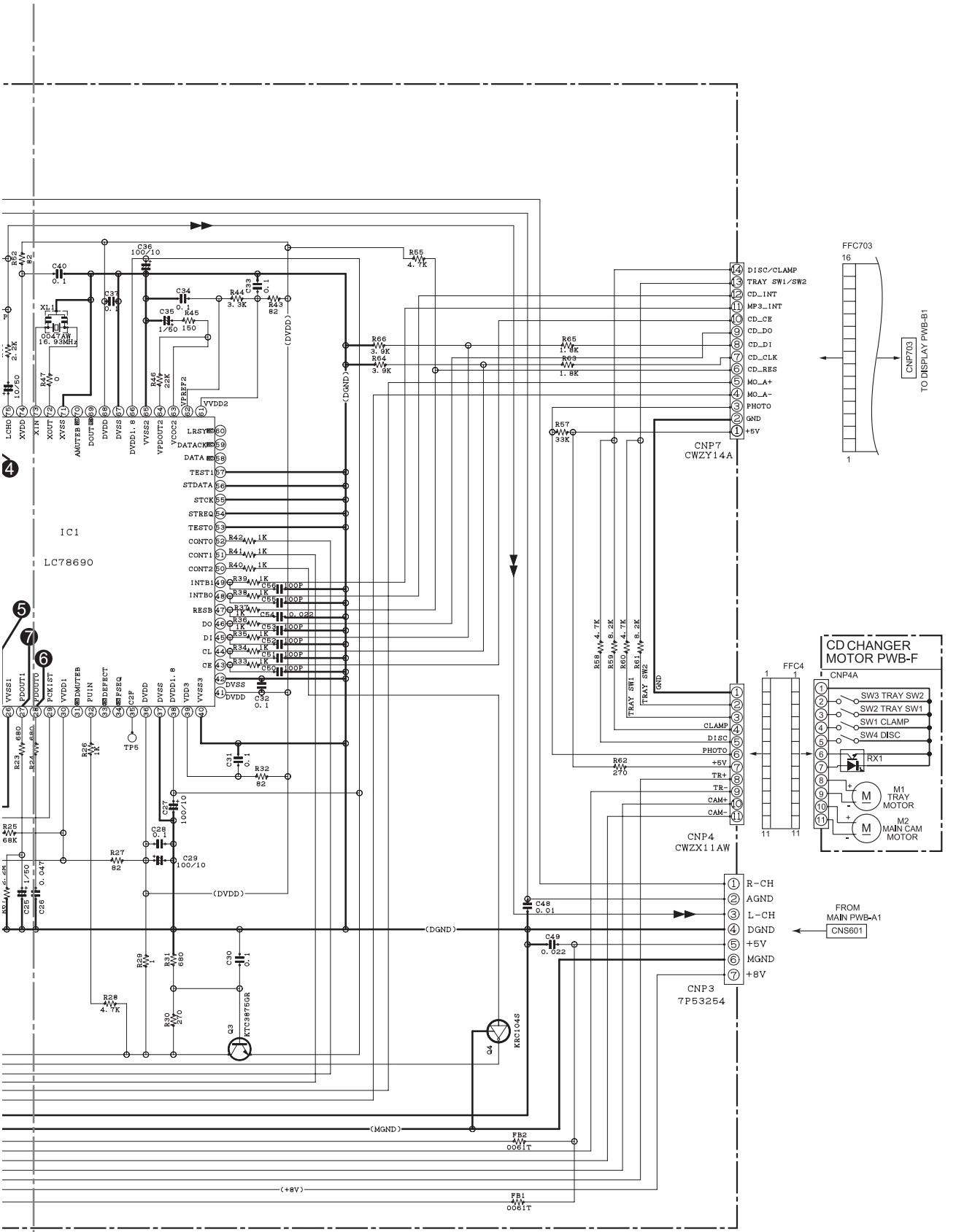



**Figure 6-8: SCHEMATIC DIAGRAM (7/8)**




The number ❶ to ❼ are waveform number shown in page 5-1

| 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|

**Figure 6-9 :SCHEMATIC DIAGRAM (8/8)**

**[4] Wiring side of PWB**

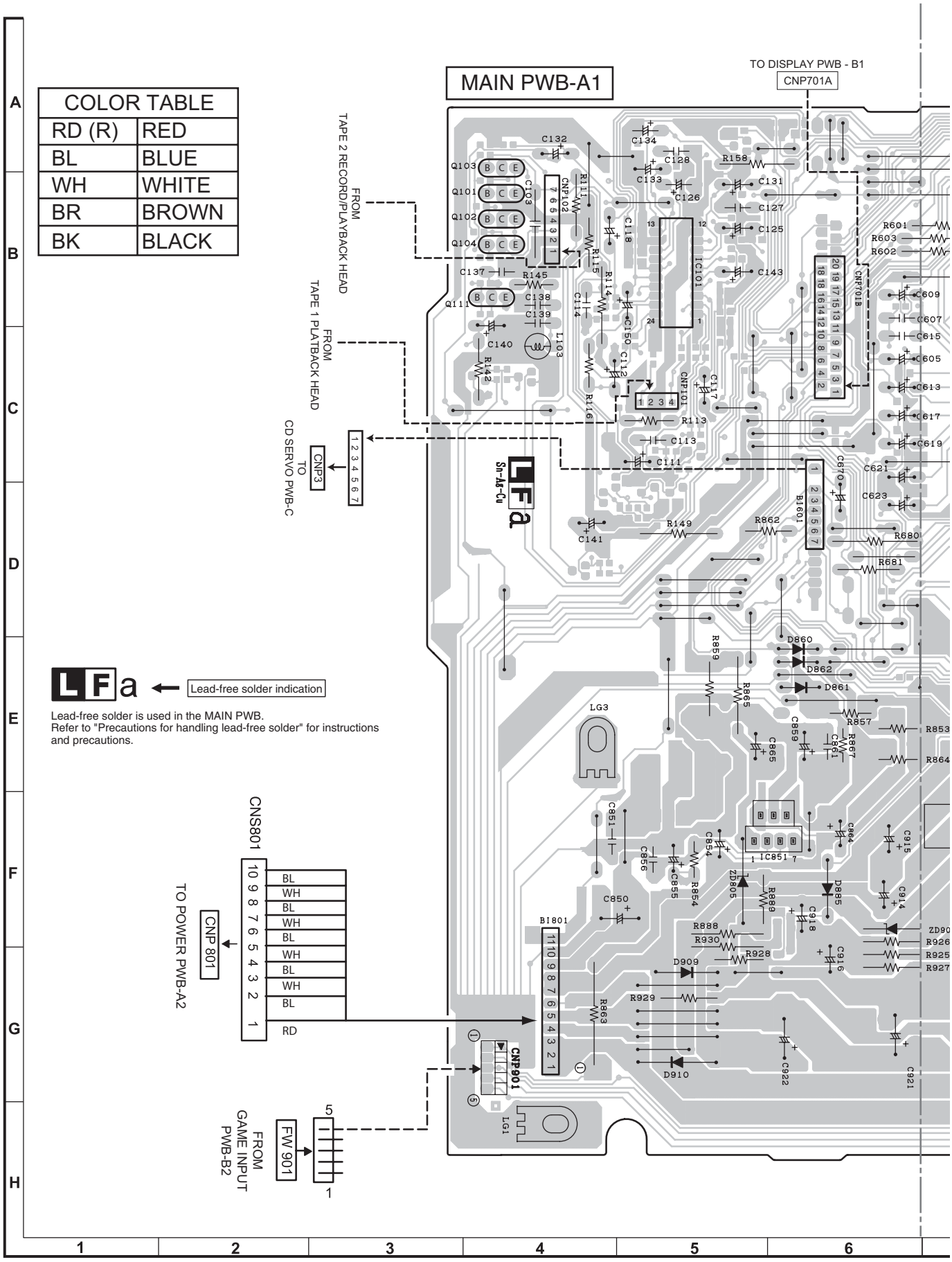



**Figure 6-10: WIRING SIDE OF MAIN PWB (TOP VIEW) (1/15)**

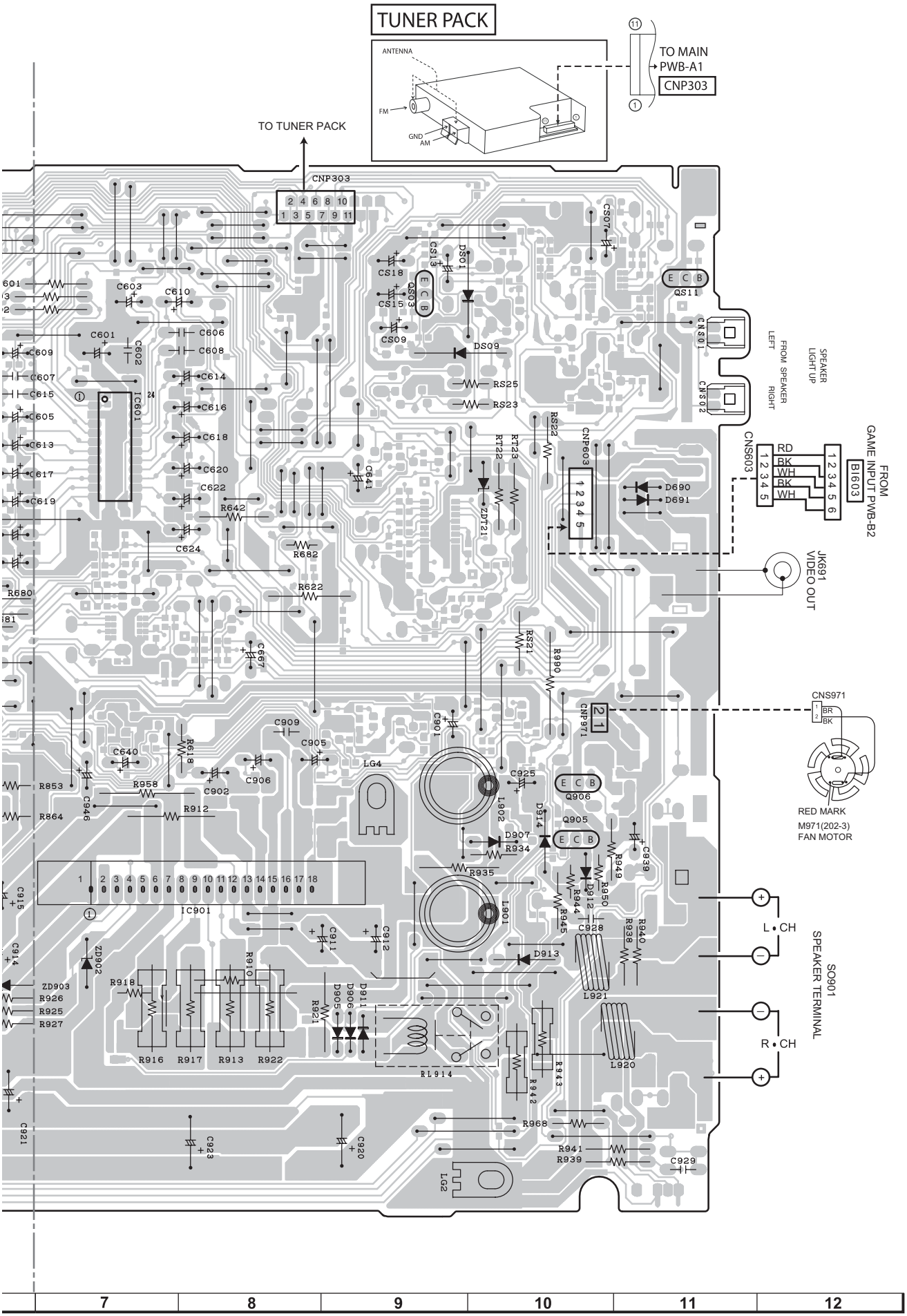



**Figure 6-11: WIRING SIDE OF MAIN PWB (TOP VIEW) (2/15)**

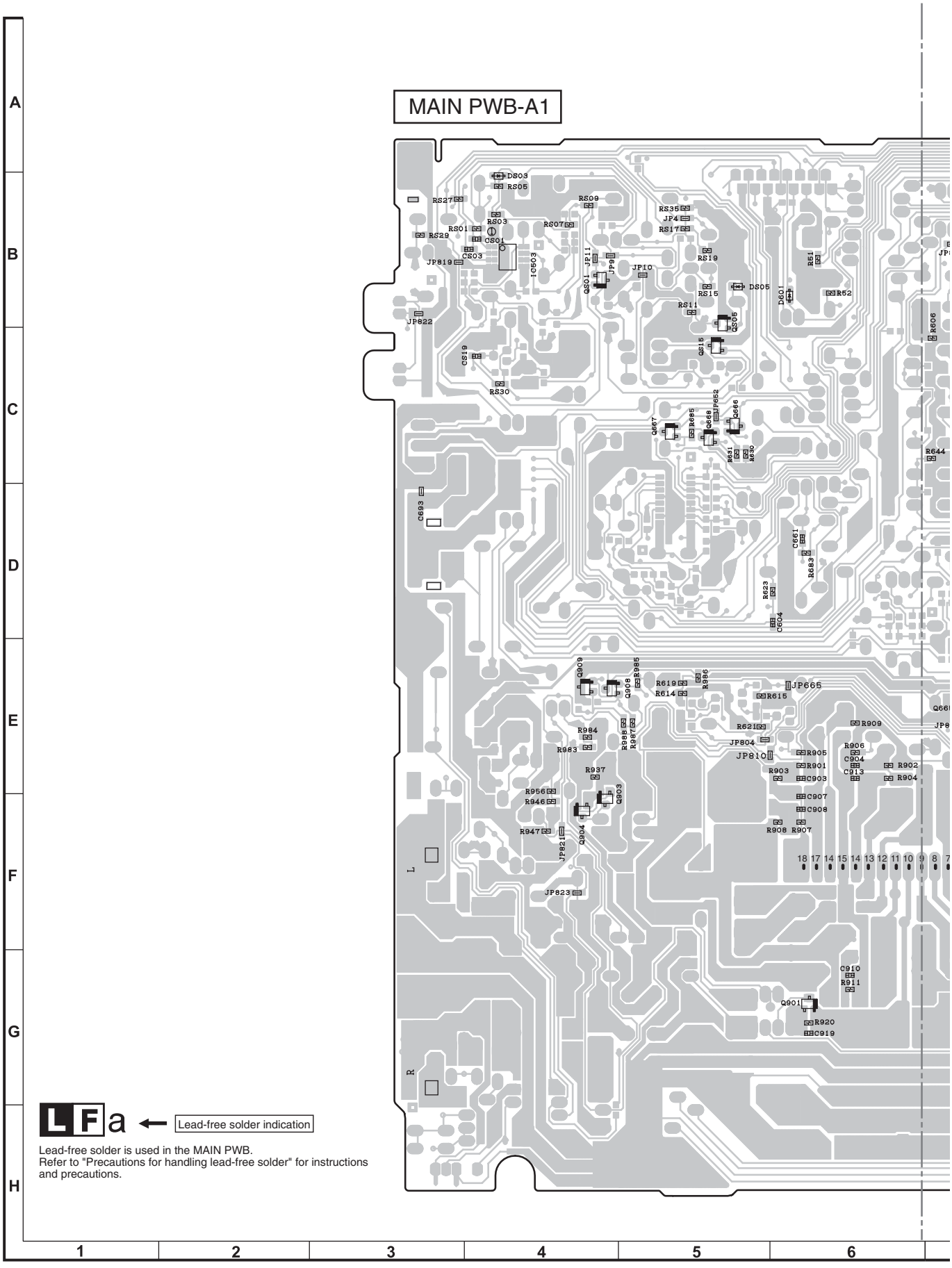



**Figure 6-12: WIRING SIDE OF MAIN PWB (BOTTOM VIEW) (3/15)**

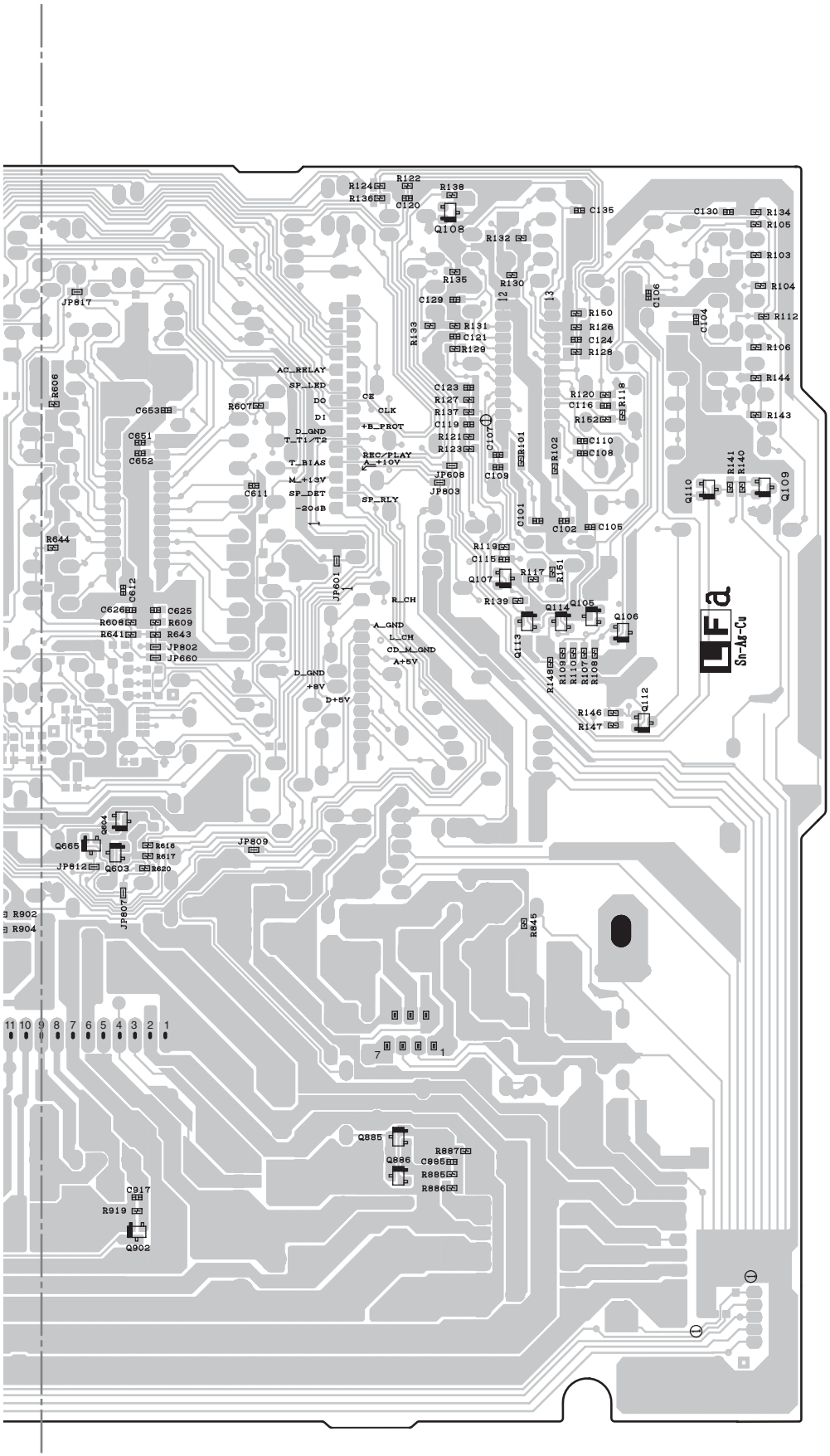



**Figure 6-13: WIRING SIDE OF MAIN PWB (BOTTOM VIEW) (4/15)**

-**MEMO**-

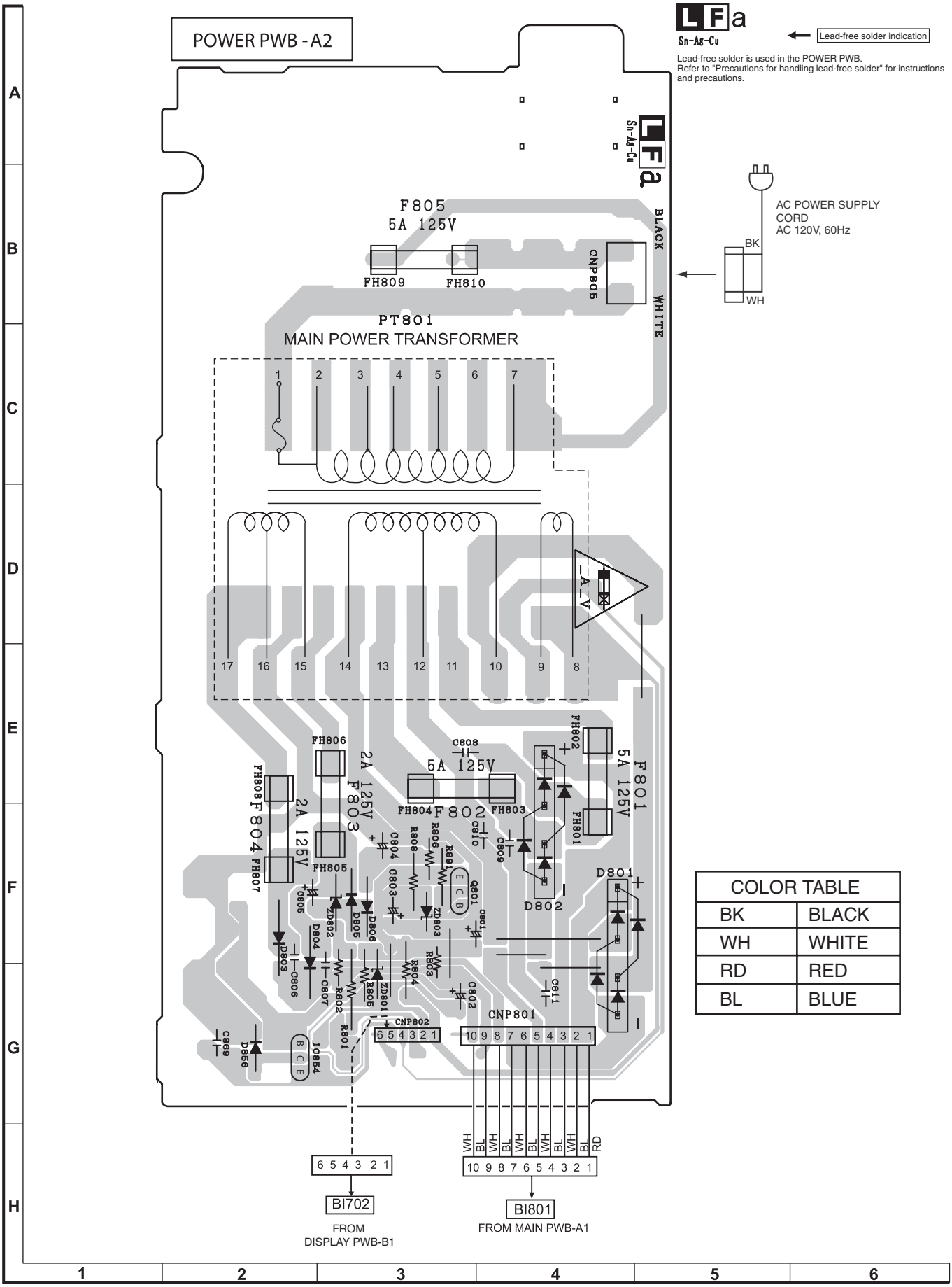
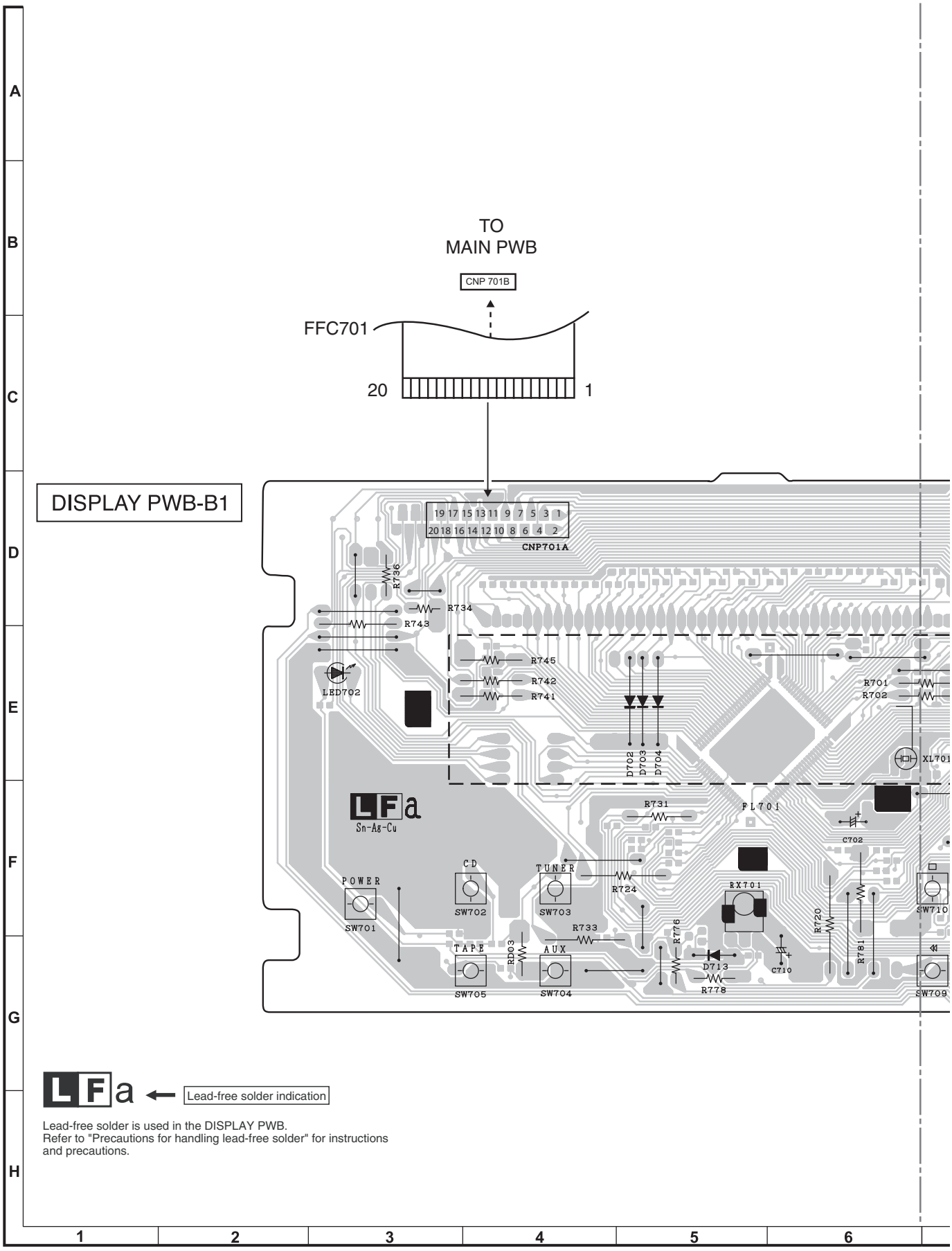



**Figure 6-14: WIRING SIDE OF POWER PWB (5/15)**




LFa ← Lead-free solder indication

Lead-free solder is used in the DISPLAY PWB.
Refer to "Precautions for handling lead-free solder" for instructions and precautions.

**Figure 6-15: WIRING SIDE OF DISPLAY PWB (TOP VIEW) (6/15)**

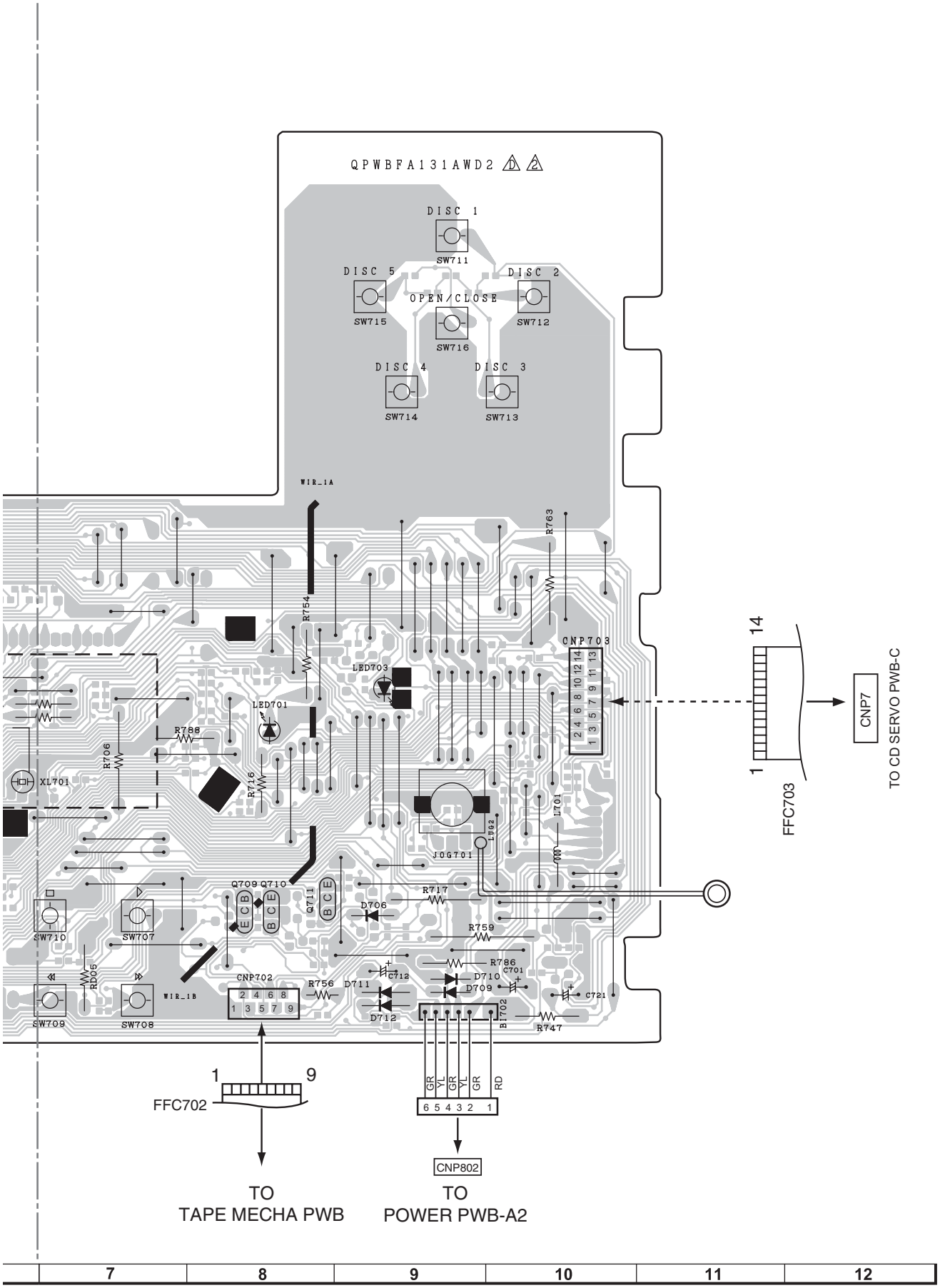



**Figure 6-16: WIRING SIDE OF DISPLAY PWB (TOP VIEW) (7/15)**

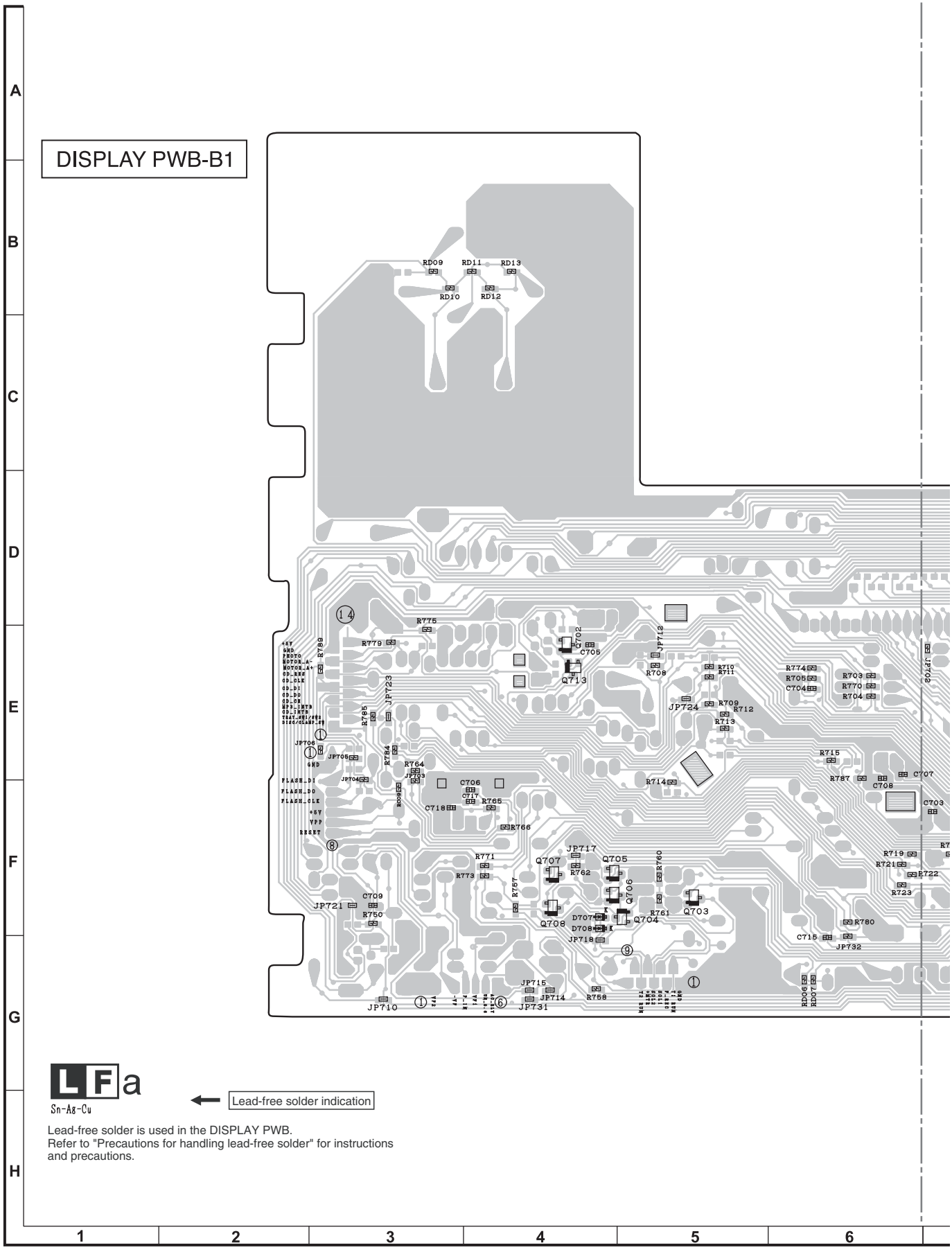
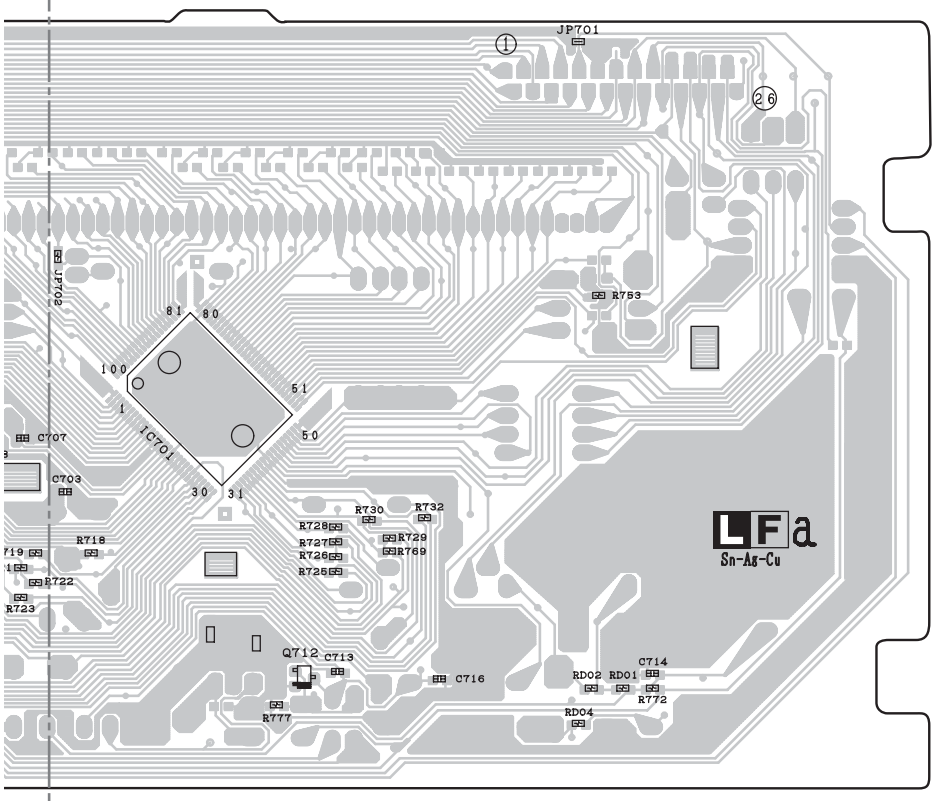



**Figure 6-17: WIRING SIDE OF DISPLAY PWB (BOTTOM VIEW) (8/15)**




7 8 9 10 11 12

**Figure 6-18: WIRING SIDE OF DISPLAY PWB (BOTTOM VIEW) (9/15)**

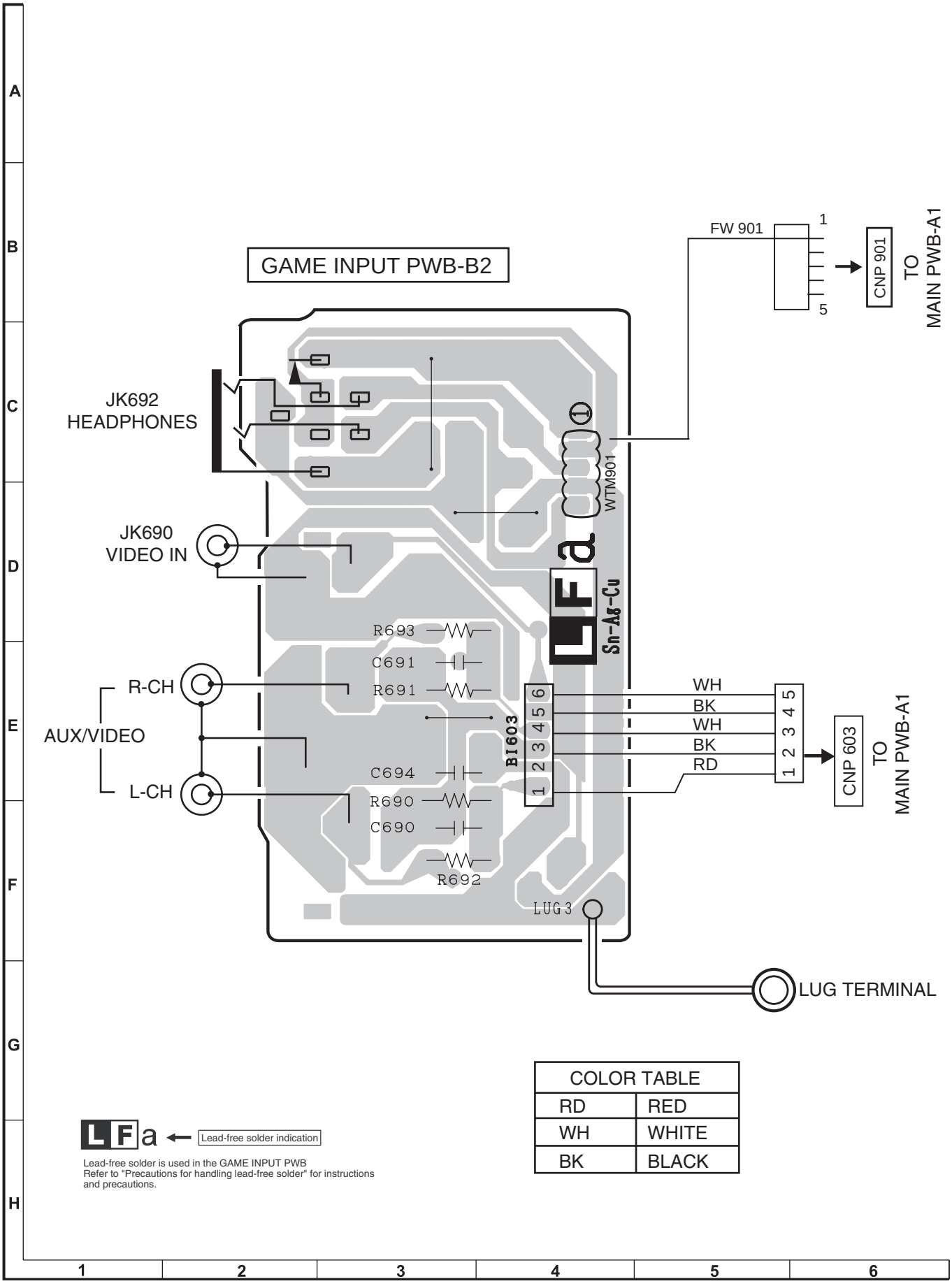
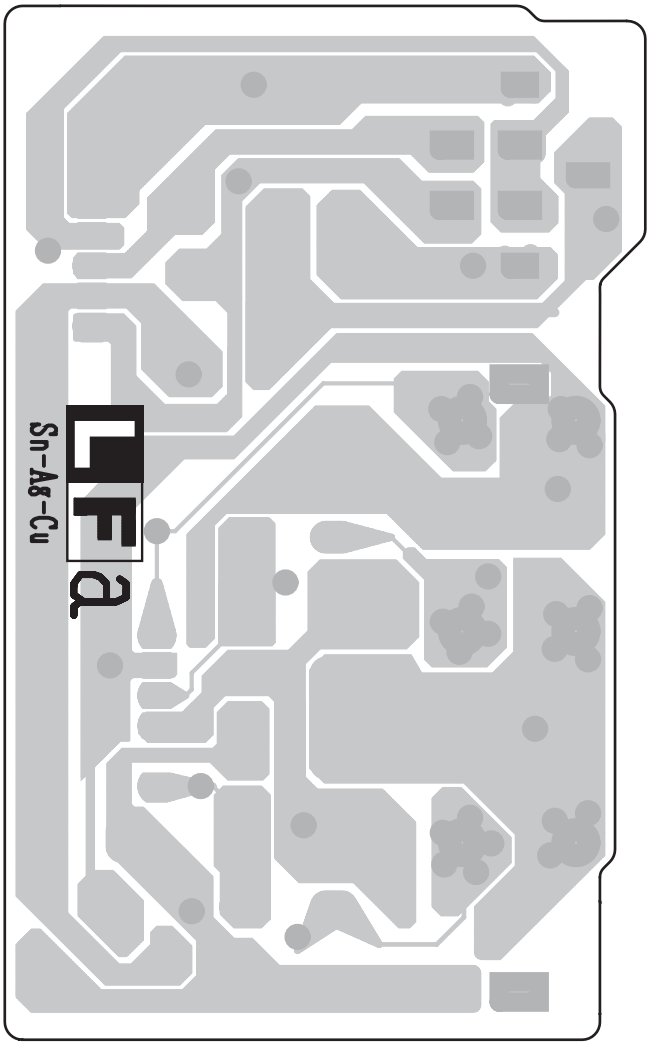



**Figure 6-19: WIRING SIDE OF GAME INPUT PWB (TOP VIEW) (10/15)**

GAME INPUT PWB-B2




LFa ← Lead-free solder indication

Lead-free solder is used in the GAME INPUT PWB
Refer to "Precautions for handling lead-free solder" for instructions and precautions.

**Figure 6-20: WIRING SIDE OF GAME INPUT PWB (BOTTOM VIEW) (11/15)**

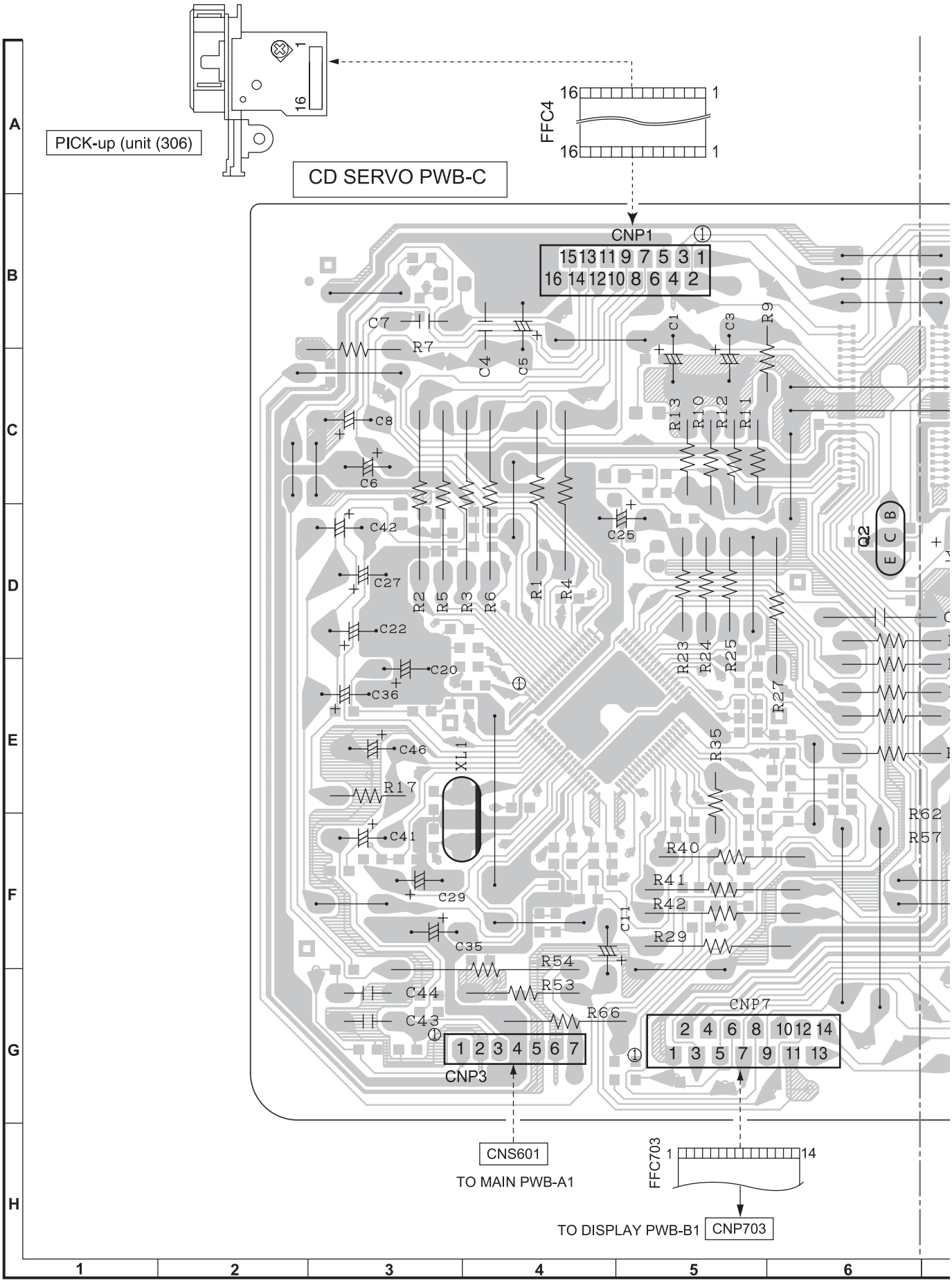



**Figure 6-21: WIRING SIDE OF CD SERVO PWB (TOP VIEW) (12/15)**

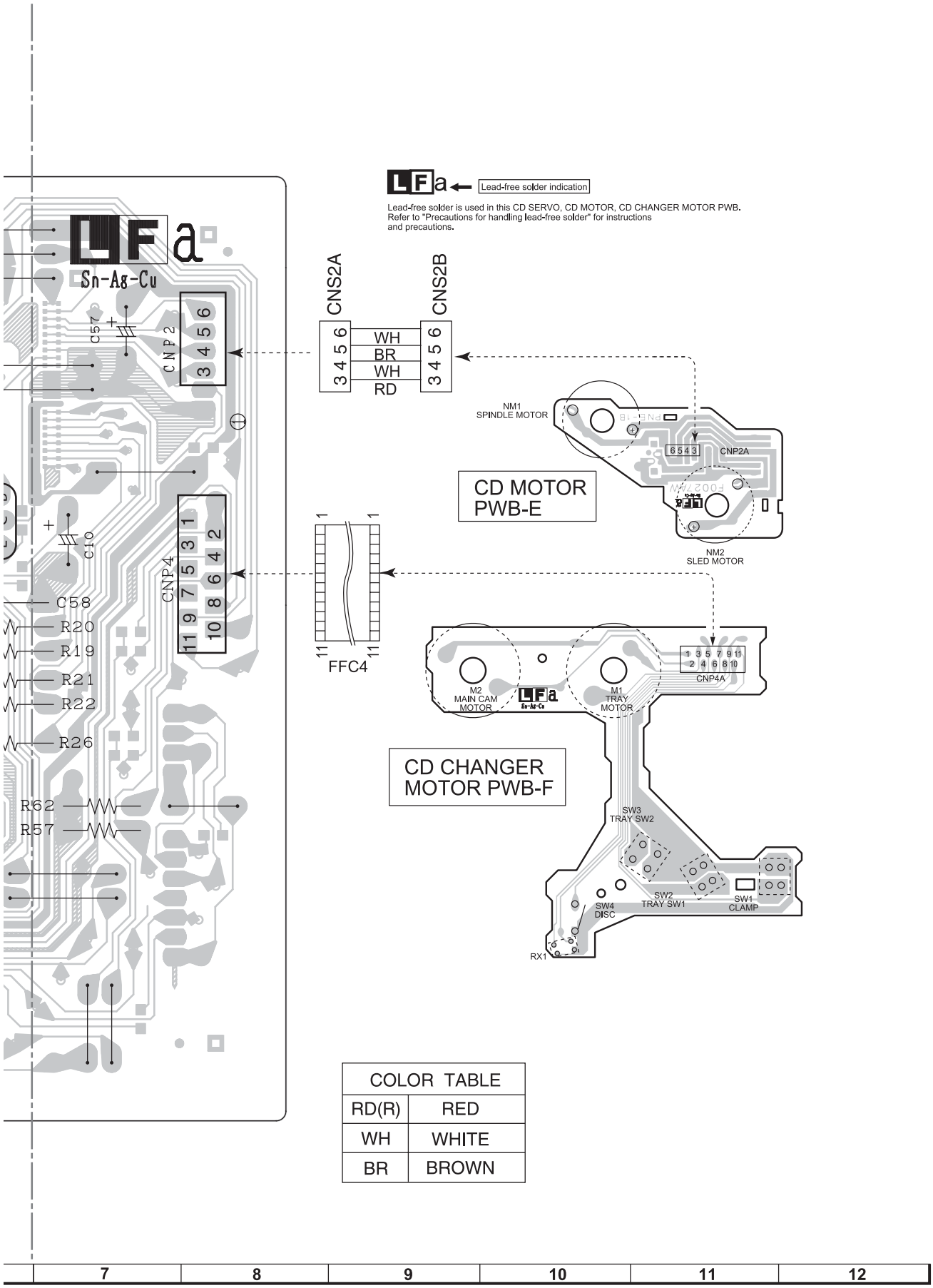



**Figure 6-22: WIRING SIDE OF CD SERVO PWB (TOP VIEW) (13/15)**

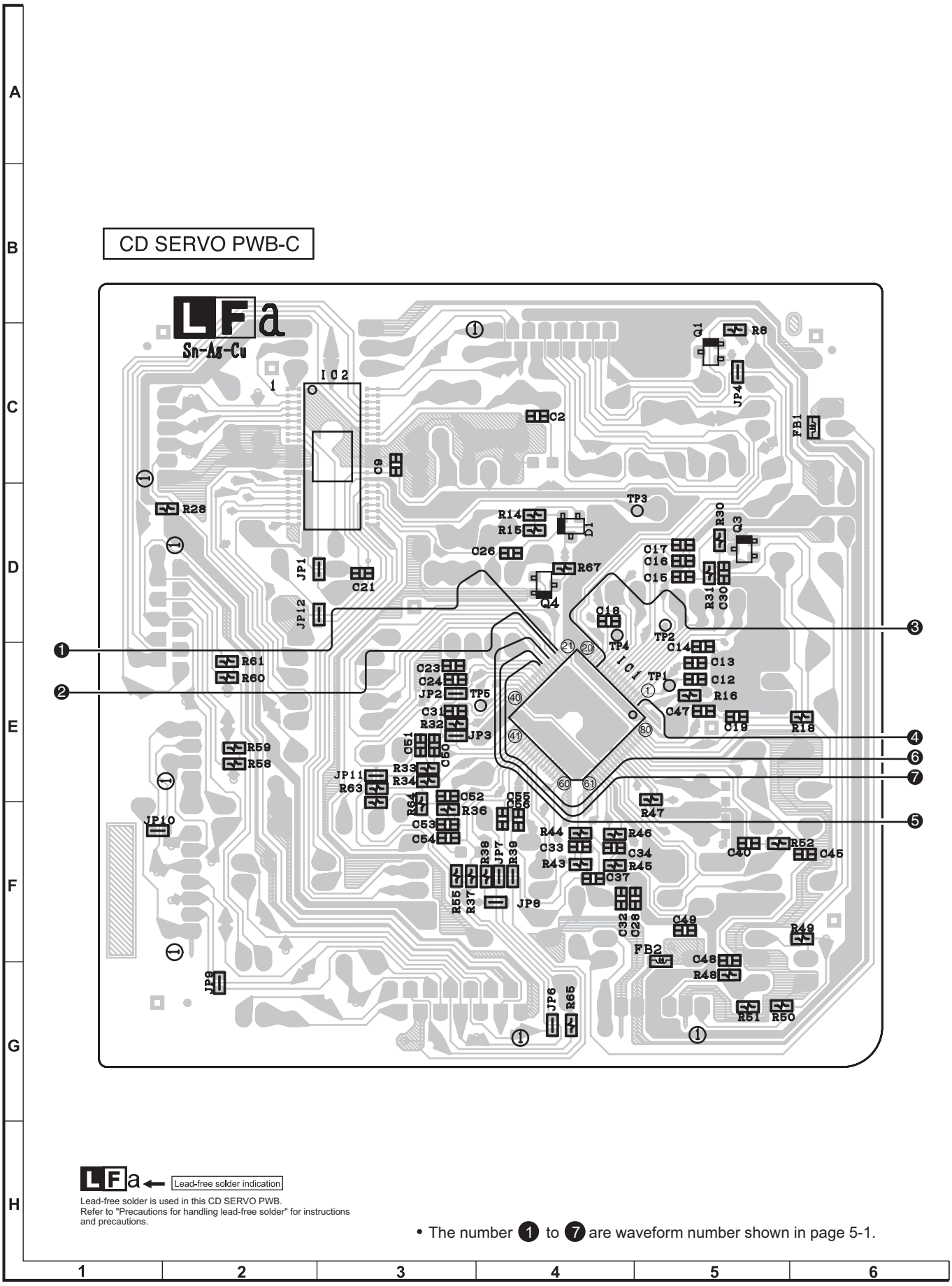



**Figure 6-23: WIRING SIDE OF CD SERVO PWB (BOTTOM VIEW) (14/15)**

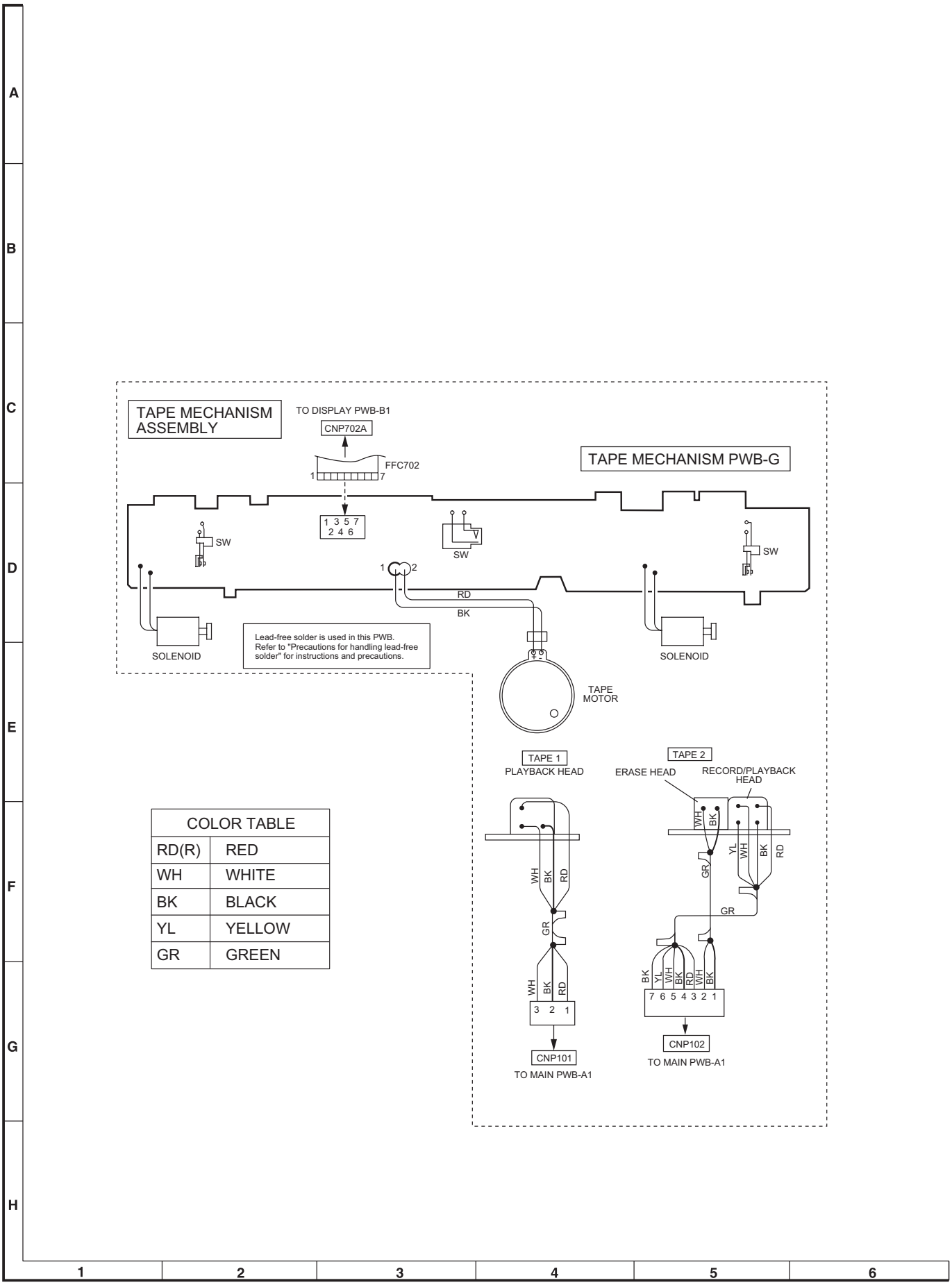



**Figure 6-24: WIRING SIDE OF PWB (15/15)**

# CHAPTER 7. FLOWCHART

## [1] Troubleshooting

### 1. When the CD does not function

The CD section may not operate when the objective lens of the optical pickup is dirty. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken, check the following items.

Remove the cabinet and follow the trouble shooting instructions.

"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn the power off.

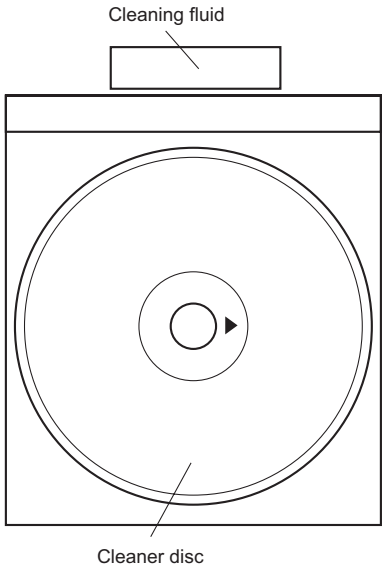
Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.

Do not touch the lens with the bare hand.

| | | Parts code |
|---|---|---|
| 1. | CD optical pickup Lens cleaner disc | UDSKA0004AFZZ |

HOW TO USE

1. Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has the mark next to it.
2. Place the CD cleaner disc onto the CD disc tray with the brush side down, then press the play button.
3. You will hear music for about 20 seconds and the CD player will automatically stop. If it still play continuously, press the stop button.




CAUTION

- The CD lens cleaner should be effective for 30-50 operations, however if the brushes become worn out earlier then please replace the cleaner disc.
- If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
- Do not drink the cleaner fluid or allow it contact with the eyes. In the event of this happening then drink and / or rinse with clean water and seek medical advice.
- The CD cleaner disc must not be used on car CD players or on computer CD-ROM drives.
- All rights reserved. Unauthorized duplicating, broadcasting and renting this product is prohibited by law.

### 2. When a CD cannot be played

### 2.1. Pressing the CD operation key is accepted, but playback does not occur.

1) Focus-HF system check

2) Tracking system check

3) Spin system check

4) PLL system check

5) Others

## (1) Focus-HF system check.

**Although a CD is inserted and the cover is closed, "NO DISC" is displayed.**

Press the Tray1 CD Eject Button without inserting a disc, and try starting the playback operation.

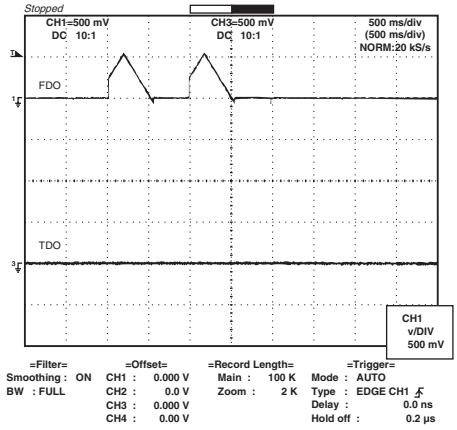



**Figure 1**

1. Does the pickup move to the PICKUP-IN Switch (NSW1) position ?
   - No → Sled motor (NM2).
   - Yes ↓

2. Does the focus (lens) move up and down ? (Waveform drawing Figure 1)
   - No → Check the focus peripheral circuit.
   - Yes ↓

3. Is the laser lit ?
   - No → Check the laser diode driver Q1 peripheral circuit.
   - Yes ↓

4. Is the turntable rotating ?
   - No → Spindle motor (NM1).

When a disc is loaded, start playback operation.

1. Is focus servo activated ? (Waveform drawing Figure 2)
   - No → Pins 5~9, 11, 18 and 19 on IC1 Check the laser diode driver Q1 peripheral circuit.
   - Yes ↓

2. Is the HF waveform normal ? (Waveform drawing Figure 3)
   - No → If the level is not normal.

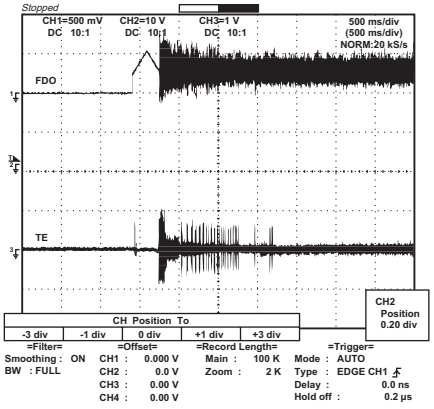



**Figure 2**

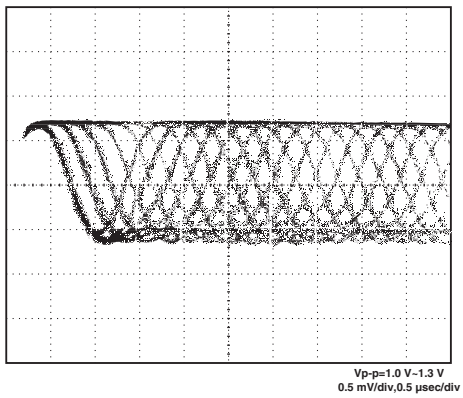



**Figure 3**

## (2) Focus-HF system check.

### Check the TE waveform at pin 16 on IC1.

If the waveform shown in Figure 4 appears and soon after NO DISC appears ?

Yes → The tracking servo is not activated.
Check the peripheral circuits at pins 15, 16 and 23 on IC1, and FFC1.

↓ No

"Initialization" is possible, but play is not possible ?

Yes → A normal jump operation cannot be completed or the beginning of the track cannot be found.
Check the around pin 23 on IC1.

↓ No

"Initialization" is not possible. → Data cannot be read. Check the VCO-PLL (Pin26~30 on IC1) system.

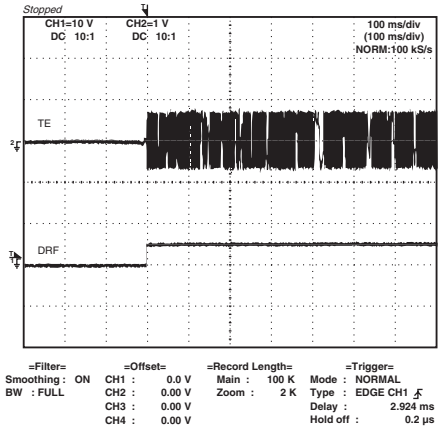

Stopped
CH1=10 V DC 10:1
CH2=1 V DC 10:1
100 ms/div
(100 ms/div)
NORM:100 kS/s
TE
DRF
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.0 V CH2 : 0.00 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 K
=Trigger= Mode : NORMAL Type : EDGE CH1 Delay : 2.924 ms Hold off : 0.2 µs

**Figure 4**

## (3) Spin system check.

Press the OPEN/CLOSE switch without inserting a disc, and then try starting the play operation.

1. The turntable rotates a little ?
(Waveform drawing Figure 5)

Yes → The spin driver circuit is OK.

↓ No

2. The turntable doesn't rotate. → Check around pin 25 on IC1, pins 5 and 6 on CNP2.

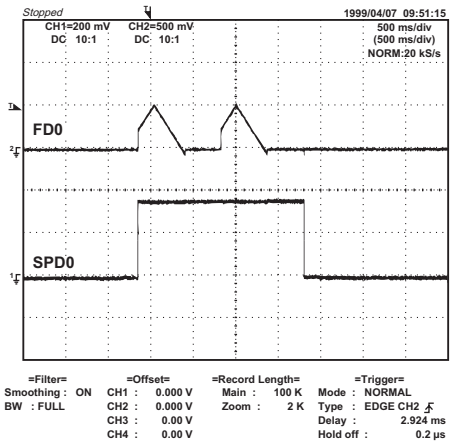

Stopped
1999/04/07 09:51:15
CH1=200 mV DC 10:1
CH2=500 mV DC 10:1
500 ms/div
(500 ms/div)
NORM:20 kS/s
FD0
SPD0
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.000 V CH2 : 0.000 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 K
=Trigger= Mode : NORMAL Type : EDGE CH2 Delay : 2.924 ms Hold off : 0.2 µs

**Figure 5**

**(4) PLL system check.**

When a disc is loaded, start play operation.

↓

The HF waveform is normal, but the TOC data cannot be read.

↓

Check the PDOUT waveform. (Figure 6)

↓

Check around pins 26~30 on IC1.

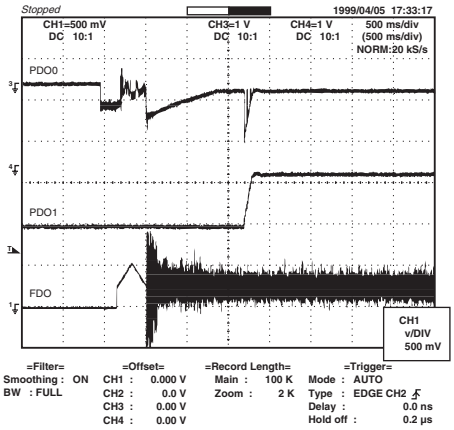



**Figure 6**

**(5) Others.**

**The HF waveform is normal and the time is displayed normally, but no sound is produced. Or the sound has dropouts.**

Is pin 35 (C2F) on IC1 "L" ?

No → There are too many error flags on a damaged disc which makes error correction impossible.

↓ Yes

1. When playing at normal speed.
Check the peripheral circuit at pin 69 (DOUT) on IC1 and the waveform (Figure 7).

↓

If OK, Check the unit.

Check again using a known good disc.

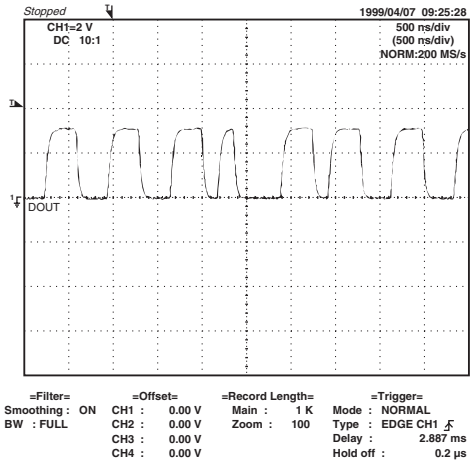



**Figure 7**

# CHAPTER 8. OTHERS

### [1] Function table of IC

### IC1 VHiLC78690E-1: CD Servo (LC78690E) (1/2)

| Pin No. | Terminal Name | Input/Output | Setting in Reset | Function | |
|---|---|---|---|---|---|
| 1 | EFMIN | Input | INPUT | RF signal input pin. | |
| 2 | RFOUT | Output | UNSTABLE | RF signal output pin. | |
| 3 | LPF | Output | UNSTABLE | RF signal DC level detection. LPF capacitor connection pin. | |
| 4 | PHLPF | Output | UNSTABLE | LPF capacitor pin for detection problem. | |
| 5 | AIN | Input | INPUT | A signal input pin. | |
| 6 | CIN | Input | INPUT | C signal input pin. | |
| 7 | BIN | Input | INPUT | B signal input pin. | |
| 8 | DIN | Input | INPUT | D signal input pin. | |
| 9 | FEC | Output | UNSTABLE | FE signal LPF capacitor connection pin. | |
| 10* | RFMON | Output | UNSTABLE | Built in analog signal for monitoring LSI pin. | |
| 11 | VREF | Output | AVDD/2 | VREF voltage output pin. | |
| 12 | JITTC | Output | UNSTABLE | Jitter detection capacitor connection pin. | |
| 13 | EIN | Input | INPUT | E signal input pin. | |
| 14 | FIN | Input | INPUT | F signal input pin. | |
| 15 | TEC | Output | UNSTABLE | TE signal LPF capacitor connection pin. | |
| 16 | TE | Output | UNSTABLE | TE signal output pin. | |
| 17 | TEIN | Input | INPUT | TES signal generation TE signal input pin. | |
| 18 | LDD | Output | UNSTABLE | Laser power control signal output pin. | |
| 19 | LDS | Input | INPUT | Laser power control signal input pin. | |
| 20 | AVSS | — | — | Analog GND pin. This pin must always be connected to 0V. | |
| 21 | AVDD | — | — | Analog power supply pin. | |
| 22 | FDO | Output | AVDD/2 | Focus control output pin. D/A converter output. | |
| 23 | TDO | Output | AVDD/2 | Tracking control output pin. D/A converter output. | |
| 24 | SLDO | Output | AVDD/2 | SLED control output pin. D/A converter output. | |
| 25 | SPDO | Output | AVDD/2 | SPINDLE control output pin. D/A converter output. | |
| 26 | VVSS1 | — | — | For use by the EFM PLL Circuit | Built-in VCO GND pin. This pin must always be connected to 0V. |
| 27 | PDOUT1 | Output | UNSTABLE | | Phase comparison output pin 1 to control built in VCO. |
| 28 | PDOUT0 | Output | UNSTABLE | | Phase comparison output pin 0 to control built in VCO. |
| 29 | PCKIST | Input | INPUT | | Resistor connection pin to set current for PDOUT 0 and 1 output. |
| 30 | VVDD1 | — | — | | Built_in VCO power supply pin 1. |
| 31* | DMUTEB | Output | L | DMUTEB output pin. | |
| 32 | PUIN | Input/Output | INPUT | PUIN input pin. (built-in pull-up resistor) | |
| 33* | DEFECT | Output | L | DEFECT signal output pin. | |
| 34* | FSEQ | Output | L | Detected sync signal output. This signal is high when the sync signal detected from the EFM signal and the internally generated sync signal agree. | |
| 35* | C2F | Output | L | C2 error flag monitor output pin. | |
| 36 | DVDD | — | — | Digital power supply pin. | |
| 37 | DVSS | — | — | Digital GND pin. This pin must always be connected to 0V. | |
| 38 | DVDD1.8 | Output | H | Supply voltage connect to capacitor for digital circuit. | |
| 39 | VDD3 | — | — | Built-in VCO power supply pin 3. | |
| 40 | VVSS3 | — | — | Built-in VCO GND pin 3. This pin must always be connected to 0V. | |
| 41 | DVDD | — | — | Digital power supply pin. | |
| 42 | DVSS | — | — | Digital GND pin. This pin must always be connected to 0V. | |
| 43 | CE | Input | INPUT | Micro-Com-puter Inter-face | Chip enable signal input pin. |
| 44 | CL | Input | INPUT | | Data transfer clock input pin. |
| 45 | DI | Input | INPUT | | Data input pin. |
| 46 | DO | Output | H | | Data output pin. (TRI-State Output) |
| 47 | RESB | Input | — | Reset input pin for LSI. This pin must set to low briefly after power is applied. | |
| 48 | INTB0 | Output | H | Interrupt signal output pin 0. (SERVO Section) | |
| 49 | INTB1 | Output | H | Interrupt signal output pin 1. (DECODER Section) | |
| 50 | ICONT2 | Input/Output | INPUT | General Purpose I/O pin 2 | Controlled by command from the microprocessor. Any of these that are unused must be either set up as input pin ports and connected to 0V, or set up as output pin ports and left open. |

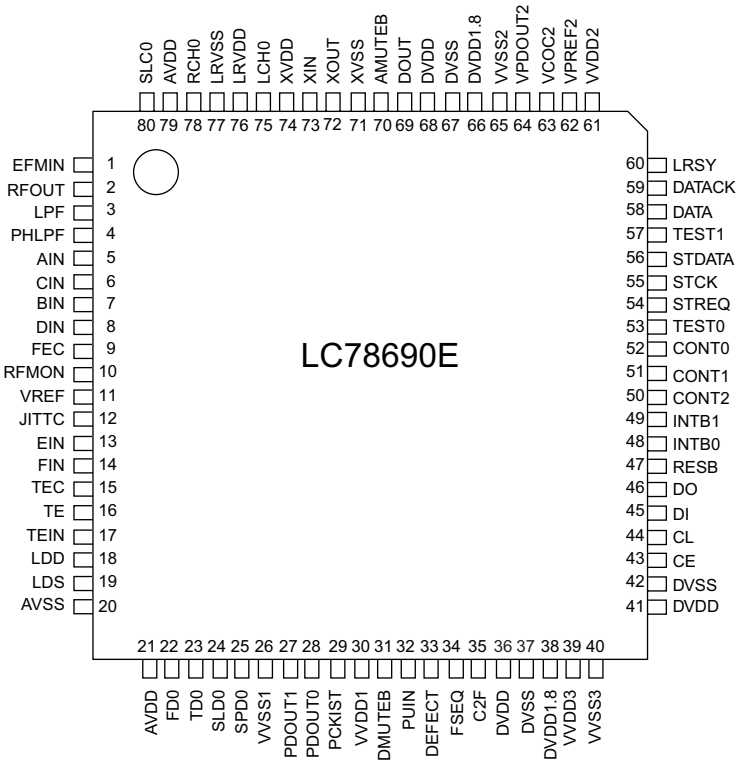
In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

## IC1 VHiLC78690E-1: CD Servo (LC78690E) (2/2)

| Pin No. | Terminal Name | Input/Output | Setting in Reset | Function | |
|---|---|---|---|---|---|
| 51 | CONT1 | Input/Output | INPUT | General Purpose I/O pin 1 | Controlled by command from the microprocessor. Any of these that are unused must be either set up as input pin ports and connected to 0V, or set up as output pin ports and left open. |
| 52 | CONT0 | Input/Output | INPUT | General Purpose I/O pin 0 | |
| 53 | TEST0 | Input | L | Test input pin 1. This pin must always be connected to 0V. | |
| 54 | STREQ | Input/Output | INPUT | Stream data request output pin. | |
| 55 | STCK | Input/Output | INPUT | Stream data bit clock usage input pin. | |
| 56 | STDATA | Input/Output | INPUT | Stream data input pin. | |
| 57 | TEST1 | Input | L | Test input pin 0. This pin must always be connected to 0V. | |
| 58* | DATA | Output | L | Left/Right clock output pin. | |
| 59* | DATACK | Output | L | Bit clock output pin. | |
| 60* | LRSY | Output | L | Left/Right channel data output pin. | |
| 61 | VVDD2 | — | — | For use by the EFM PLL Circuit | Built-in VCO power supply pin 2. |
| 62 | VPREF2 | Input | INPUT | | Built-in VCO control oscillator range setting input pin. |
| 63 | VCOC2 | Input | INPUT | | Built-in VCO control voltage setting input pin. |
| 64 | VPDOUT2 | Output | UNSTABLE | | Built-in VCO control output pin 2. |
| 65 | VVSS2 | — | — | | Built-in VCO GND pin. This pin must always be connected to 0V. |
| 66 | DVDD1.8 | Output | H | Supply voltage connect to condenser for digital circuit. | |
| 67 | DVSS | — | — | Digital GND pin. This pin must always be connected to 0V. | |
| 68 | DVDD | — | — | Digital power supply pin. | |
| 69* | DOUT | Output | Input | Digital output pin. EIAJ format. | |
| 70* | AMUTEB | Output | L | GAMUTEB output pin. | |
| 71 | XVSS | — | — | Digital GND pin. This pin must always be connected to 0V. | |
| 72 | XOUT | Output | OSCILLATING | Crystal oscillator | Connections for a 16.9344 MHZ oscillator element. |
| 73 | XIN | Input | OSCILLATING | | |
| 74 | XVDD | — | — | Digital power supply pin. | |
| 75 | LCHO | Output | LRVDD/2 | D/A converter | Left channel output supply pin. |
| 76 | LRVDD | — | — | | LR channel power supply pin. |
| 77 | LRVSS | — | — | | LR channel GND pin. This pin must always be connected to 0V. |
| 78 | RCHO | Output | LRVDD/2 | | Right channel input supply pin. |
| 79 | AVDD | — | — | Analog power supply pin. | |
| 80 | SLCO | — | — | Slice level control output pin. | |

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

**IC1 VHiLC78690E-1: CD Servo (LC78690E)**



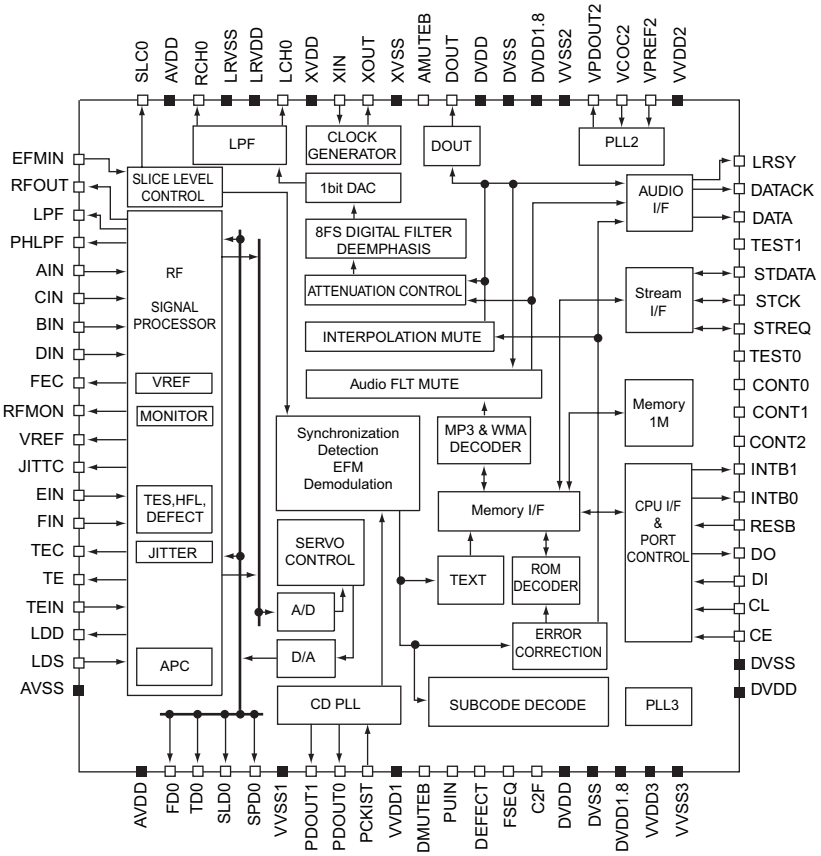




**Figure 8-3 BLOCK DIAGRAM OF IC**

**IC2 VHILA6261//-1: Focus/Tracking/Spin/Sled Driver (LA6261)**

| Pin No. | Terminal Name | Function |
|---|---|---|
| 1 | VO3+ | BTL Output pin (+) for channel 3. |
| 2 | VO3- | BTL Output pin (-) for channel 3. |
| 3 | VO2+ | BTL Output pin (+) for channel 2. |
| 4 | VO2- | BTL Output pin (-) for channel 2. |
| 5 | VO1+ | BTL Output pin (+) for channel 1. |
| 6 | VO1- | BTL Output pin (-) for channel 1. |
| 7 | PGND1 | Power GND for channels 1,2,3 and 4 (BTL). |
| 8 | REGIN | Regulator pin (External PNP base). |
| 9 | PVCC1 | Power for channels 1,2,3 and 4 (BTL). (SVCC short-cirrcuited) |
| 10 | REGOUT | Regulator pin (External PNP collector). |
| 11 | VIN1 | Input pin for channel 1 |
| 12* | VIN1G | Input pin for channel 1 (for gain control) |
| 13 | VIN2 | Input pin for channel 2 |
| 14* | VIN2G | Input pin for channel 2 (for gain control) |
| 15 | VIN3 | Input pin for channel 3 |
| 16* | VIN3G | Input pin for channel 3 (for gain control) |
| 17 | VIN4 | Input pin for channel 4 |
| 18 | VIN4G | Input pin for channel 4 (for gain control) |
| 19 | FWD5 | CH5 Output change pin (FWD). Logic input for bridge. |
| 20 | REV5 | CH5 Output change pin (REV). Logic input for bridge. |
| 21 | VCONT5 | Input pin for CH5 output voltage control |
| 22 | FWD6 | CH6 Output change pin (FWD). Logic input for bridge. |
| 23 | REV6 | CH6 Output change pin (REV). Logic input for bridge. |
| 24 | VCONT6 | Input pin for CH5 output voltage control. |
| 25 | VREFIN | Reference voltage input pin. |
| 26 | SGND | Signal system GND |
| 27 | SVCC | Signal system power (PVCC1 short - circuited) |
| 28 | PVCC2 | Power for channel 5 and 6 (H bridge). |
| 29 | MUTE | Input pin for BTL mute. |
| 30 | PGND2 | Power GND for channels 5 and 6 (H bridge). |
| 31 | VO6+ | H bridge Output pin (+) for channel 6. |
| 32 | VO6- | H bridge Output pin (-) for channel 6. |
| 33 | VO5+ | H bridge Output pin (+) for channel 5. |
| 34 | VO5- | H bridge Output pin (-) for channel 5. |
| 35 | VO4+ | BTL Output pin (+) for channel 4. |
| 36 | VO4- | BTL Output pin (-) for channel 4. |

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

* Set power system GND to the minimum potential together with SGND
* Short-circuit three pins of power system SVSS and PVCC1 externally before use.

**IC2 VHILA6261//-1: Focus/Tracking/Spin/Sled Driver (LA6261)**

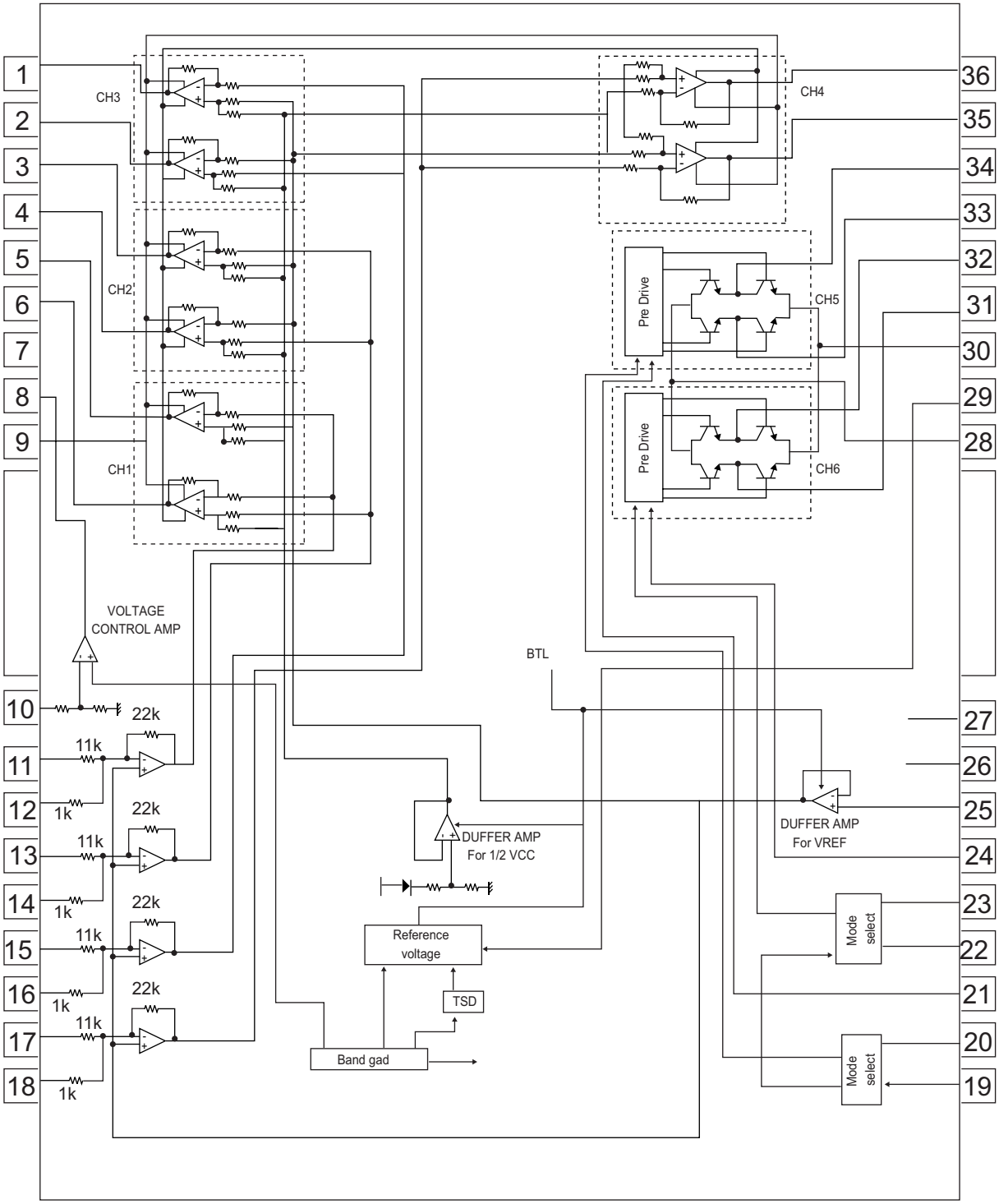



**Figure 8-5 BLOCK DIAGRAM OF IC**

### IC601 VHiLC75341/-1: Audio Processor (LC75341)

| Pin No. | Terminal Name | Function |
|---|---|---|
| 1 | DI | Serial data and clock input pin for control. |
| 2 | CE | Chip enable pin.<br>Data written into an internal latch in a timing of "H" to "L".<br>Each analog switch is activated.<br>Data transfer enabled at "H" level. |
| 3 | VSS | Ground pin. |
| 4 | LOUT | Bass band filter comprising capacitor and resistor connection pin and bass/treble output pin. |
| 5 | LBASS | Bass band filter comprising capacitor and resistor connection pin. |
| 6 | LTRE | Treble band filter comprising capacitor and resistor connection pin. |
| 7 | LIN | Volume + equalizer output pin. |
| 8 | LSEL0 | Input selector output pin. |
| 9-12 | L4-1 | Input signal pin. |
| 13-16 | R1-4 | Input signal pin. |
| 17 | RSEL0 | Input selector output pin. |
| 18 | RIN | Volume + equalizer output pin |
| 19 | RTRE | Treble band filter comprising capacitor and resistor connection pin. |
| 20 | RBASS | Bass band filter comprising capacitor and resistor connection pin. |
| 21 | ROUT | Bass band filter comprising capacitor and resistor connection pin and bass/treble output pin. |
| 22 | VREF | 0.5x VDD voltage generation block for analog ground. Capacitor of several 10µF to be connected between VREF and AWSS (VSS) as a countermeasure against power ripple. |
| 23 | VDD | Supply pin |
| 24 | CLK | Serial data and clock input pin for control. |

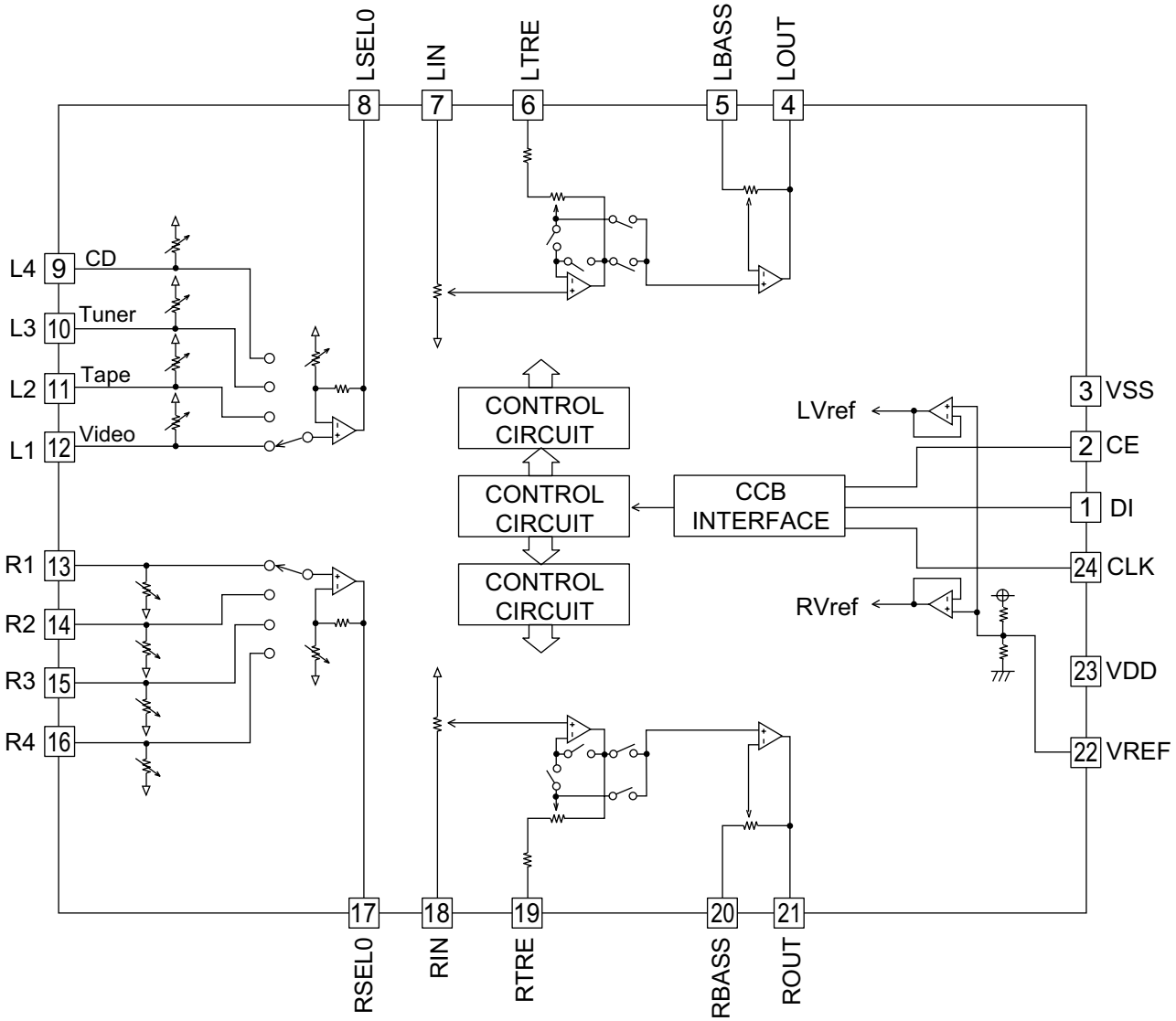



**Figure 8-6 BLOCK DIAGRAM OF IC**

**IC851 VHIAN80T53/-1: Multi Regulator (AN80T53)**

| Pin No. | Terminal Name | Function |
|---|---|---|
| 1 | REG4 Output | 5.1 V power supply with a minimum peak out current of 1200 mA. |
| 2 | REG3 Output | 13 V power supply with a minimum peak out current of 1350 mA. |
| 3 | VCC | Connected to Power supplies. |
| 4 | GND | Connected to the IC substrate. |
| 5 | MODE 1 | REG1, REG2,REG3 and REG4 outputs are turned ON when this pin is 5 V. |
| 6 | REG2 Output | 10 V power supply with a minimum peak out current of 800 mA. |
| 7 | REG1 Output | 8.5 V power supply with a minimum peak out current of 700 mA. |

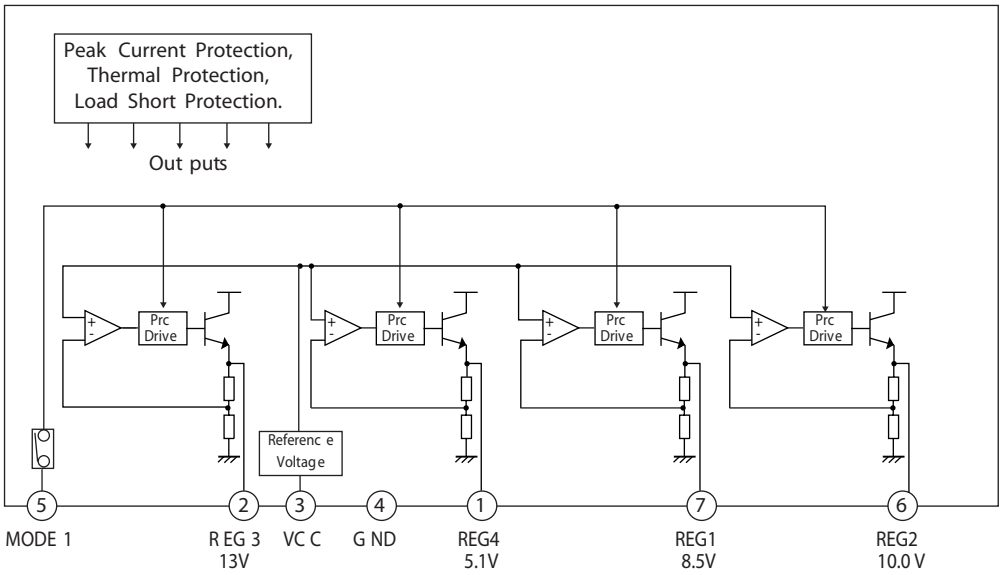
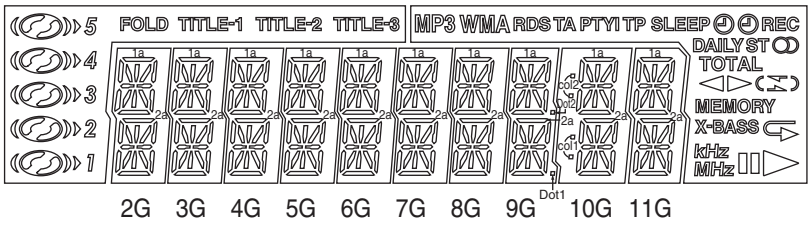


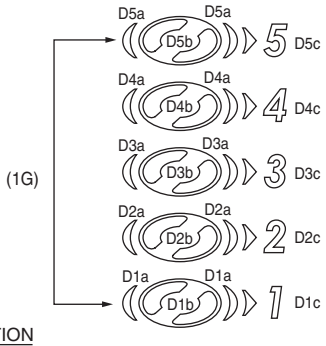

**Figure 8-10 BLOCK DIAGRAM OF IC**

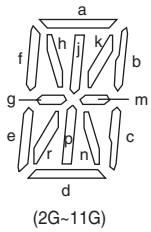
**[2] FL Display**

**FL701 VVKNA12MM54-1**

GRID ASSIGNMENT 1G 12G




ANODE CONNECTION

| | 1G | 2G | 3G | 4G | 5G | 6G | 7G | 8G | 9G | 10G | 11G | 12G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P1 | FOLD | 1a | 1a | 1a | 1a | 1a | 1a | 1a | 1a | 1a | 1a | |
| P2 | TITLE-1 | 1b | 1b | 1b | 1b | 1b | 1b | 1b | 1b | 1b | 1b | |
| P3 | TITLE-2 | 1k | 1k | 1k | 1k | 1k | 1k | 1k | 1k | 1k | 1k | TOTAL |
| P4 | TITLE-3 | 1j | 1j | 1j | 1j | 1j | 1j | 1j | 1j | 1j | 1j | RDS |
| P5 | 5 | 1h | 1h | 1h | 1h | 1h | 1h | 1h | 1h | 1h | 1h | TA |
| P6 | D5a | 1f | 1f | 1f | 1f | 1f | 1f | 1f | 1f | 1f | 1f | WMA |
| P7 | D5b | 1m | 1m | 1m | 1m | 1m | 1m | 1m | 1m | 1m | 1m | PTYI |
| P8 | D5c | 1d | 1d | 1d | 1d | 1d | 1d | 1d | 1d | 1d | 1d | TP |
| P9 | 4 | 1g | 1g | 1g | 1g | 1g | 1g | 1g | 1g | 1g | 1g | SLEEP |
| P10 | D4a | 1p | 1p | 1p | 1p | 1p | 1p | 1p | 1p | 1p | 1p | DAILY |
| P11 | D4b | 1e | 1e | 1e | 1e | 1e | 1e | 1e | 1e | 1e | 1e | (L) |
| P12 | D4c | 1n | 1n | 1n | 1n | 1n | 1n | 1n | 1n | 1n | 1n | (R) |
| P13 | 3 | 1r | 1r | 1r | 1r | 1r | 1r | 1r | 1r | 1r | 1r | REC |
| P14 | D3a | 1c | 1c | 1c | 1c | 1c | 1c | 1c | 1c | 1c | 1c | ST |
| P15 | D3b | 2a | 2a | 2a | 2a | 2a | 2a | 2a | 2a | 2a | 2a | |
| P16 | D3c | 2b | 2b | 2b | 2b | 2b | 2b | 2b | 2b | 2b | 2b | |
| P17 | 2 | 2k | 2k | 2k | 2k | 2k | 2k | 2k | 2k | 2k | 2k | |
| P18 | D2a | 2j | 2j | 2j | 2j | 2j | 2j | 2j | 2j | 2j | 2j | ( |
| P19 | D2b | 2h | 2h | 2h | 2h | 2h | 2h | 2h | 2h | 2h | 2h | |
| P20 | D2c | 2f | 2f | 2f | 2f | 2f | 2f | 2f | 2f | 2f | 2f | ) |
| P21 | 1 | 2m | 2m | 2m | 2m | 2m | 2m | 2m | 2m | 2m | 2m | MEMORY |
| P22 | D1a | 2d | 2d | 2d | 2d | 2d | 2d | 2d | 2d | 2d | 2d | |
| P23 | D1b | 2g | 2g | 2g | 2g | 2g | 2g | 2g | 2g | 2g | 2g | (II) |
| P24 | D1c | 2p | 2p | 2p | 2p | 2p | 2p | 2p | 2p | 2p | 2p | kHz |
| P25 | | 2e | 2e | 2e | 2e | 2e | 2e | 2e | 2e | 2e | 2e | MHz |
| P26 | | 2n | 2n | 2n | 2n | 2n | 2n | 2n | 2n | 2n | 2n | |
| P27 | | 2r | 2r | 2r | 2r | 2r | 2r | 2r | 2r | 2r | 2r | MP3 |
| P28 | | 2c | 2c | 2c | 2c | 2c | 2c | 2c | 2c | 2c | 2c | X-BASS |
| P29 | | | | | | | | | Dot1 | Col1 | | |
| P30 | | | | | | | | | Dot2 | Col2 | | |

OUTER DIMENSIONS

PIN CONNECTION

| PIN NO. | 51 | 50 | 49 | 48 | 47 | 46 | 45 | 44 | 43 | 42 | 41 | 40 | 39 | 38 | 37 | 36 | 35 | 34 | 33 | 32 | 31 | 30 | 29 | 28 | 27 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CONNECTION | F2 | F2 | NP | NP | P30 | P29 | P28 | P27 | P26 | P25 | P24 | P23 | P22 | P21 | P20 | P19 | P18 | P17 | P16 | P15 | P14 | P13 | P12 | P11 | P10 | P9 |

| PIN NO. | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CONNECTION | P8 | P7 | P6 | P5 | P4 | P3 | P2 | P1 | 12G | 11G | 10G | 9G | 8G | 7G | 6G | 5G | 4G | 3G | NX | NX | 2G | 1G | NP | F1 | F1 |

**-MEMO-**

# SHARP PARTS GUIDE

## MINI COMPONENT SYSTEM

## MODEL CD-MPX870

**CD-MPX870 Mini Component System consisting of CD-MPX870 (main unit) and CP-MPX870 (speaker system).**

CONTENTS


[1]INTEGRATED CIRCUITS

[2]TRANSISTORS

[3]DIODES

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[6]COILS

[7]CAPACITORS

[8]RESISTORS

[9]OTHER CIRCUITRY PARTS

[10]CD MECHANISM PARTS

[11]CHANGER MECHANISM PARTS

[12]CABINET PARTS

[13]SPEAKER BOX PARTS

[14]ACCESSORIES / PACKING PARTS

[15]P.W.B. ASSEMBLY (Not Replacement Item)

[16]OTHER SERVICE PARTS


Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

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The contents are subject to change without notice.

| NO. | PARTS CODE | PRICE RANK | NEW MARK | PART RANK | DESCRIPTION |
|---|---|---|---|---|---|
| **[1] INTEGRATED CIRCUITS** | | | | | |
| IC1 | VHILC78690E-1 | BE | | | CD Servo,LC78690 |
| IC2 | VHILA6261//-1 | AN | | | Focus/Tracking/Spin/Sled Driver, LA6261 |
| IC101 | VHIAN7345K/-1 | AM | | | Playback and Record / Playback Amp.,AN7345K |
| IC503 | VHIKIA4558F-1 | AF | | | Power Amp,KIA4558F |
| IC601 | VHILC75341/-1 | AM | | | Audio Processor,LC75341 |
| IC701 | RH-IXA101AWZZ | AY | | | Micom IC |
| IC851 | VHIAN80T53/-1 | AL | | | Multi Regulator,AN80T53 |
| IC854 | VHIKIA78L05-1 | AE | | | Constant Voltage Regulator,KIA78L05 |
| ⚠ IC901 | VHISTK41242-1 | BB | | | Power Amp,STK412-420 |
| **[2] TRANSISTORS** | | | | | |
| Q1 | VSKTA1504Y/-1 | AB | | | Silicon,PNP,KTA1504 Y |
| Q2 | VSKTA1271Y/-1 | AC | | | Silicon,PNP,KTA1271 Y |
| Q3 | VSKTC3875GR-1 | AB | | | Silicon,NPN,KTC3875 GR |
| Q4 | VSKRC104S//-1 | AC | | | Digital,NPN,KRC104 S |
| Q101 | VSKTC3200GR-1 | AB | | | Silicon,NPN,KTC3200 GR |
| Q102 | VSKTC3200GR-1 | AB | | | Silicon,NPN,KTC3200 GR |
| Q103 | VSKTC3200GR-1 | AB | | | Silicon,NPN,KTC3200 GR |
| Q104 | VSKTC3200GR-1 | AB | | | Silicon,NPN,KTC3200 GR |
| Q105 | VSKTC3875GR-1 | AB | | | Silicon,NPN,KTC3875 GR |
| Q106 | VSKTC3875GR-1 | AB | | | Silicon,NPN,KTC3875 GR |
| Q107 | VSKTC3875GR-1 | AB | | | Silicon,NPN,KTC3875 GR |
| Q108 | VSKTC3875GR-1 | AB | | | Silicon,NPN,KTC3875 GR |
| Q109 | VSKTA1504Y/-1 | AB | | | Silicon,PNP,KTA1504 Y |
| Q110 | VSKRC104S//-1 | AC | | | Digital,NPN,KRC104 S |
| Q111 | VSKTC3203Y/-1 | AE | | | Silicon,NPN,KTC3203 Y |
| Q112 | VSKTA1504Y/-1 | AB | | | Silicon,PNP,KTA1504 Y |
| Q113 | VSKRC104S//-1 | AC | | | Digital,NPN,KRC104 S |
| Q114 | VSKRC104S//-1 | AC | | | Digital,NPN,KRC104 S |
| Q603 | VSKTC3875GR-1 | AB | | | Silicon,NPN,KTC3875 GR |
| Q604 | VSKTC3875GR-1 | AB | | | Silicon,NPN,KTC3875 GR |
| Q665 | VSKRA107S//-1 | AB | | | Digital,PNP,KRA107 S |
| Q666 | VSKTC3875GR-1 | AB | | | Silicon,NPN,KTC3875 GR |
| Q667 | VSKTA1504GR-1 | AB | | | Silicon,PNP,KTA1504 GR |
| Q668 | VSKTC3875GR-1 | AB | | | Silicon,NPN,KTC3875 GR |
| Q702 | VSKRC102S//-1 | AB | | | Digital,NPN,KRC102 S |
| Q703 | VSKRA107S//-1 | AB | | | Digital,PNP,KRA107 S |
| Q704 | VSKRC104S//-1 | AC | | | Digital,NPN,KRC104 S |
| Q705 | VSKRA107S//-1 | AB | | | Digital,PNP,KRA107 S |
| Q706 | VSKRC104S//-1 | AC | | | Digital,NPN,KRC104 S |
| Q707 | VSKRA107S//-1 | AB | | | Digital,PNP,KRA107 S |
| Q708 | VSKRC104S//-1 | AC | | | Digital,NPN,KRC104 S |
| Q709 | VSKTA1273Y/-1 | AE | | | Silicon,PNP,KTA1273 Y |
| Q710 | VSKTA1273Y/-1 | AE | | | Silicon,PNP,KTA1273 Y |
| Q711 | VSKTA1273Y/-1 | AE | | | Silicon,PNP,KTA1273 Y |
| Q712 | VSKRC102S//-1 | AB | | | Digital,NPN,KRC102 S |
| Q713 | VSKRC104S//-1 | AC | | | Digital,NPN,KRC104 S |
| Q801 | VSKTA1274Y/-1 | AE | | | Silicon,PNP,KTA1274 Y |
| Q885 | VSKTC3875GR-1 | AB | | | Silicon,NPN,KTC3875 GR |
| Q886 | VSKTC3875GR-1 | AB | | | Silicon,NPN,KTC3875 GR |
| Q901 | VSKTC3875GR-1 | AB | | | Silicon,NPN,KTC3875 GR |
| Q902 | VSKTC3875GR-1 | AB | | | Silicon,NPN,KTC3875 GR |
| Q903 | VSKTC3875GR-1 | AB | | | Silicon,NPN,KTC3875 GR |
| Q904 | VSKTC3875GR-1 | AB | | | Silicon,NPN,KTC3875 GR |
| Q905 | VSKTC3199GR-1 | AB | | | Silicon,NPN,KTC3199 GR |
| Q906 | VSKTC3203Y/-1 | AE | | | Silicon,NPN,KTC3203 Y |
| Q908 | VSKTC3875GR-1 | AB | | | Silicon,NPN,KTC3875 GR |
| Q909 | VSKTC3875GR-1 | AB | | | Silicon,NPN,KTC3875 GR |
| QS01 | VSKTC3875GR-1 | AB | | | Silicon,NPN,KTC3875 GR |
| QS03 | VSKTC3205Y/-1 | AD | | | Silicon,NPN,KTC3205 Y |
| QS05 | VSKRC104S//-1 | AC | | | Digital,NPN,KRC104 S |
| QS11 | VSKTC3199GR-1 | AB | | | Silicon,NPN,KTC3199 GR |
| QS15 | VSKRC104S//-1 | AC | | | Digital,NPN,KRC104 S |
| **[3] DIODES** | | | | | |
| D1 | VHDKDS184//-1 | AB | | | Silicon,KDS184 |
| D601 | VHDKDS160//-1 | AB | | | Silicon,KDS160 |
| D690 | VHD1SS119//-1 | AA | | | Silicon,D1SS119 |
| D691 | VHD1SS119//-1 | AA | | | Silicon,D1SS119 |
| D702 | VHD1SS119//-1 | AA | | | Silicon,1SS119 |
| D703 | VHD1SS119//-1 | AA | | | Silicon,1SS119 |
| D704 | VHD1SS119//-1 | AA | | | Silicon,1SS119 |
| D706 | VHD1SS119//-1 | AA | | | Silicon,D1SS119 |
| D707 | VHDKDS160//-1 | AB | | | Silicon,KDS160 |
| D708 | VHDKDS160//-1 | AB | | | Silicon,KDS160 |
| D709 | VHD1SS119//-1 | AA | | | Silicon,D1SS119 |
| D710 | VHD1SS119//-1 | AA | | | Silicon,D1SS119 |
| D711 | VHD1SS119//-1 | AA | | | Silicon,D1SS119 |
| D712 | VHD1SS119//-1 | AA | | | Silicon,D1SS119 |
| D713 | VHD1SS119//-1 | AA | | | Silicon,D1SS119 |
| D752 | VHD1N4148H/-1 | AA | | | Silicon,1N4148H (Use in LED PWB-D) Use 2 pcs |
| D801 | VHDTS10B05G-1 | AH | | | Silicon,TS10B05GM |
| D802 | VHDTS10B05G-1 | AH | | | Silicon,TS10B05GM |
| D803 | VHDDSRL204F-1 | AC | | | Silicon,DSRL204F |
| D804 | VHDDSRL204F-1 | AC | | | Silicon,DSRL204F |
| D805 | VHDDS1N404S-1 | AB | | | Silicon,DS1N404S |
| D806 | VHDDS1N404S-1 | AB | | | Silicon,DS1N404S |
| D856 | VHD1SS119//-1 | AA | | | Silicon,D1SS119 |

| NO. | PARTS CODE | PRICE RANK | NEW MARK | PART RANK | DESCRIPTION |
|---|---|---|---|---|---|
| **[3] DIODES** | | | | | |
| D860 | VHD1SS119//-1 | AA | | | Silicon,D1SS119 |
| D861 | VHD1SS119//-1 | AA | | | Silicon,D1SS119 |
| D862 | VHD1SS119//-1 | AA | | | Silicon,D1SS119 |
| D885 | VHD1SS119//-1 | AA | | | Silicon,D1SS119 |
| D905 | VHD1SS119//-1 | AA | | | Silicon,D1SS119 |
| D906 | VHD1SS119//-1 | AA | | | Silicon,D1SS119 |
| D907 | VHD1SS119//-1 | AA | | | Silicon,D1SS119 |
| D909 | VHDDS1N404S-1 | AB | | | Silicon,DS1N404S |
| D910 | VHDDS1N404S-1 | AB | | | Silicon,DS1N404S |
| D911 | VHD1SS119//-1 | AA | | | Silicon,D1SS119 |
| D912 | VHD1SS119//-1 | AA | | | Silicon,D1SS119 |
| D913 | VHD1SS119//-1 | AA | | | Silicon,D1SS119 |
| D914 | VHD1SS119//-1 | AA | | | Silicon,D1SS119 |
| DS01 | VHD1SS119//-1 | AA | | | Silicon,D1SS119 |
| DS03 | VHDKDS160//-1 | AB | | | Silicon,KDS160 |
| DS05 | VHDKDS160//-1 | AB | | | Silicon,KDS160 |
| DS09 | VHD1SS119//-1 | AA | | | Silicon,D1SS119 |
| LED701 | VHP503BC2E30Z | AG | | | LED,Blue,5mm,503BC2E30 |
| LED702 | VHPSDPB40F2AC | AH | | | LED,Blue,SDPB40F2AC ( LED PWB-D ) use 2 pcs |
| LED702 | VHPSLR342VCB1 | AC | | | LED,Red,SLR342VCB ( DISPLAY PWB-B1 ) |
| ZD801 | VHEDZ6R2BSA-1 | AB | | | Zener,6.2V,DZ6.2BSA |
| ZD802 | VHEDZ7R5BSB-1 | AB | | | Zener,7.5V,DZ7.5BSB |
| ZD803 | VHEDZ300BSB-1 | AB | | | Zener,30V,DZ300BSB |
| ZD805 | VHEDZ120BSB-1 | AB | | | Zener,12V,DZ120BSB |
| ZD902 | VHEDZ120BSB-1 | AB | | | Zener,12V,DZ120BSB |
| ZD903 | VHEDZ120BSB-1 | AB | | | Zener,12V,DZ120BSB |
| **[4] VIBRATORS/CRYSTALS** | | | | | |
| XL1 | RCRM-0047AWZZ | AE | | | Ceramic |
| XL701 | RCRSP0029AWZZ | AF | | | Crystal |
| **[5] TRANSFORMERS** | | | | | |
| ⚠ PT801 | RTRNPA044AWZZ | BK | | | Power ( Main ) |
| **[6] COILS** | | | | | |
| FB1 | RBLN-0061TAZZ | AB | | | Ferrite Beads,BLM18AG121SN1D |
| FB2 | RBLN-0061TAZZ | AB | | | Ferrite Beads,BLM18AG121SN1D |
| L103 | VP-MK331K0000 | AB | | | 330 µ H,Choke |
| L701 | VP-DH101K0000 | AB | | | 100 µ H,Choke |
| L901 | RCILZ0024AWZZ | AC | | | 3 µ H,Choke |
| L902 | RCILZ0024AWZZ | AC | | | 3 µ H,Choke |
| L920 | RCILZA017AWZZ | AB | | | 0.29 µ H |
| L921 | RCILZA017AWZZ | AB | | | 0.29 µ H |
| **[7] CAPACITORS** | | | | | |
| C1 | VCEAZA1AW107M | AB | | | 100µF,10V,Electrolytic |
| C2 | VCKYCY1HB102K | AA | | | 0.001µF,50V |
| C3 | VCEAZA1AW107M | AB | | | 100µF,10V,Electrolytic |
| C4 | VCKYPA1HB103K | AA | | | 0.01µF,50V |
| C5 | VCEAZA1EW476M | AB | | | 47µF,25V,Electrolytic |
| C6 | RC-EZ0004AWZZ | AD | | | 3.3µF,16V,Electrolytic |
| C7 | VCKYCY1HB102K | AA | | | 0.001µF,50V |
| C8 | VCEAZA1AW476M | AB | | | 47µF,10V,Electrolytic |
| C9 | VCKYCY1HB103K | AA | | | 0.01µF,50V |
| C10 | VCEAZA0JW108M | AC | | | 1000µF,6.3V,Electrolytic |
| C11 | VCEAZA1AW107M | AB | | | 100µF,10V,Electrolytic |
| C12 | VCKYCY1HB472K | AA | | | 0.0047µF,50V |
| C13 | VCKYCY1HB103K | AA | | | 0.01µF,50V |
| C14 | VCKYCY1EF473Z | AB | | | 0.047µF,25V |
| C15 | VCKYCY1CB563K | AA | | | 0.056µF,16V |
| C16 | VCKYCY1HB103K | AA | | | 0.01µF,50V |
| C17 | VCKYCY1CB563K | AA | | | 0.056µF,16V |
| C18 | VCKYCY1HB103K | AA | | | 0.01µF,50V |
| C19 | VCKYCY1CB104K | AA | | | 0.1µF,16V |
| C20 | VCEAZA1AW107M | AB | | | 100 µ F,10V,Electrolytic |
| C21 | VCKYCY1CB104K | AA | | | 0.1µF,16V |
| C22 | VCEAZA1AW477M | AB | | | 470µF,10V,Electrolytic |
| C23 | VCKYCY1CB104K | AA | | | 0.1µF,16V |
| C24 | VCKYCY1CB104K | AA | | | 0.1µF,16V |
| C25 | VCEAZA1HW105M | AB | | | 1µF,50V,Electrolytic |
| C26 | VCKYCY1EF473Z | AB | | | 0.047µF,25V |
| C27 | VCEAZA1AW107M | AB | | | 100µF,10V,Electrolytic |
| C28 | VCKYCY1CB104K | AA | | | 0.1µF,16V |
| C29 | VCEAZA1AW107M | AB | | | 100µF,10V,Electrolytic |
| C30 | VCKYCY1CB104K | AA | | | 0.1µF,16V |
| C31 | VCKYCY1CB104K | AA | | | 0.1µF,16V |
| C32 | VCKYCY1CB104K | AA | | | 0.1µF,16V |
| C33 | VCKYCY1CB104K | AA | | | 0.1µF,16V |
| C34 | VCKYCY1CB104K | AA | | | 0.1µF,16V |
| C35 | VCEAZA1HW105M | AB | | | 1µF,50V,Electrolytic |
| C36 | VCEAZA1AW107M | AB | | | 100µF,10V,Electrolytic |
| C37 | VCKYCY1CB104K | AA | | | 0.1 µ F,16V |
| C40 | VCKYCY1CB104K | AA | | | 0.1µF,16V |
| C41 | VCEAZA1HW106M | AB | | | 10µF,50V,Electrolytic |
| C42 | VCEAZA1HW106M | AB | | | 10µF,50V,Electrolytic |
| C43 | VCKYPA1HB152K | AA | | | 0.0015µF,50V |
| C44 | VCKYPA1HB152K | AA | | | 0.0015µF,50V |
| C45 | VCKYCY1CB104K | AA | | | 0.1µF,16V |

| NO. | PARTS CODE | PRICE RANK | NEW MARK | PART RANK | DESCRIPTION |
|---|---|---|---|---|---|
| **[7] CAPACITORS** | | | | | |
| C46 | VCEAZA1AW477M | AB | | | 470µF,10V,Electrolytic |
| C47 | VCKYCY1EF473Z | AB | | | 0.047µF,25V |
| C48 | VCKYCY1HB103K | AA | | | 0.01µF,50V |
| C49 | VCKYCY1EF223Z | AB | | | 0.022µF,25V |
| C50 | VCCCCY1HH101J | AA | | | 100p F (CH), 50V |
| C51 | VCCCCY1HH101J | AA | | | 100p F (CH), 50V |
| C52 | VCCCCY1HH101J | AA | | | 100p F (CH), 50V |
| C53 | VCCCCY1HH101J | AA | | | 100p F (CH), 50V |
| C54 | VCKYCY1EF223Z | AB | | | 0.022µF,25V |
| C55 | VCCCCY1HH101J | AA | | | 100p F (CH), 50V |
| C56 | VCCCCY1HH101J | AA | | | 100p F (CH), 50V |
| C57 | VCEAZA1AW107M | AB | | | 100µF,10V,Electrolytic |
| C58 | VCKYBT1HB103K | AA | | | 0.01µF,50V |
| C101 | VCKYCY1HB561K | AA | | | 560 p F,50V |
| C102 | VCKYCY1HB561K | AA | | | 560 p F,50V |
| C103 | VCKYBT1HB181K | AA | | | 180 p F,50V |
| C104 | VCCCCY1HH181J | AA | | | 180 p F (CH),50V |
| C105 | VCKYCY1HB561K | AA | | | 560 p F,50V |
| C106 | VCKYCY1HB561K | AA | | | 560 p F,50V |
| C107 | VCKYCY1HB331K | AA | | | 330 p F,50V |
| C108 | VCKYCY1HB331K | AA | | | 330 p F,50V |
| C109 | VCKYCY1HB331K | AA | | | 330 p F,50V |
| C110 | VCKYCY1HB331K | AA | | | 330 p F,50V |
| C111 | VCEAZA1EW476M | AB | | | 47 µ F,25V,Electrolytic |
| C112 | VCEAZA1EW476M | AB | | | 47 µ F,25V,Electrolytic |
| C113 | VCQYKA1HM393K | AB | | | 0.039µF,50V,Mylar |
| C114 | VCQYKA1HM393K | AB | | | 0.039µF,50V,Mylar |
| C115 | VCKYCY1HB561K | AA | | | 560 p F,50V |
| C116 | VCKYCY1HB561K | AA | | | 560 p F,50V |
| C117 | VCEAZA1EW476M | AB | | | 47 µ F,25V,Electrolytic |
| C118 | VCEAZA1EW476M | AB | | | 47 µ F,25V,Electrolytic |
| C119 | VCKYCY1HB222K | AA | | | 0.0022 µ F,50V |
| C120 | VCKYCY1HB222K | AA | | | 0.0022 µ F,50V |
| C121 | VCKYCY1EF223Z | AB | | | 0.022 µ F,25V |
| C123 | VCKYCY1HB271K | AA | | | 270 p F,50V |
| C124 | VCKYCY1HB271K | AA | | | 270 p F,50V |
| C125 | VCEAZA1EW226M | AB | | | 22 µ F,25V,Electrolytic |
| C126 | VCEAZA1EW226M | AB | | | 22 µ F,25V,Electrolytic |
| C127 | VCQYKA1HM223K | AB | | | 0.022µF,50V,Mylar |
| C128 | VCQYKA1HM223K | AB | | | 0.022µF,50V,Mylar |
| C129 | VCKYCY1HB332K | AA | | | 0.0033 µ F,50V |
| C130 | VCKYCY1HB332K | AA | | | 0.0033 µ F,50V |
| C131 | VCEAZA1EW476M | AB | | | 47 µ F,25V,Electrolytic |
| C132 | VCEAZA1EW476M | AB | | | 47 µ F,25V,Electrolytic |
| C133 | VCEAZA1EW226M | AB | | | 22 µ F,25V,Electrolytic |
| C134 | VCEAZA1AW227M | AC | | | 220 µ F,10V,Electrolytic |
| C135 | VCKYCY1EF223Z | AB | | | 0.022 µ F,25V |
| C137 | VCQYKA1HM473K | AB | | | 0.047 µ F,50V,Mylar |
| C138 | VCQPKAA2AA822J | AA | | | 0.0082 µ F,50V,Thin Film |
| C139 | VCQYKA1HM393K | AB | | | 0.039 µ F,50V,Thin Film |
| C140 | VCEAZA1EW476M | AB | | | 47 µ F,25V,Electrolytic |
| C141 | VCEAZA1CW107M | AC | | | 100 µ F,16V,Electrolytic |
| C143 | VCEAZA1HW335M | AB | | | 3.3 µ F,50V,Electrolytic |
| C150 | VCEAZA1EW476M | AB | | | 47 µ F,25V,Electrolytic |
| C601 | VCEAZA1CW227M | AC | | | 220 µ F,16V,Electrolytic |
| C602 | VCKYPA1HF223Z | AB | | | 0.022µF,50V |
| C603 | VCEAZA1AW227M | AC | | | 220 µ F,10V,Electrolytic |
| C604 | VCKYCY1HB681K | AA | | | 680 p F,50V |
| C605 | VCEAZA1HW475M | AB | | | 4.7 µ F,50V,Electrolytic |
| C606 | VCFYFA1HA823J | AB | | | 0.082µF,50V |
| C607 | VCFYFA1HA823J | AB | | | 0.082µF,50V |
| C608 | VCFYFA1HA124J | AB | | | 0.12µF,50V,Thin Film |
| C609 | VCEAZA1HW105M | AB | | | 1 µ F,50V,Electrolytic |
| C610 | VCEAZA1HW105M | AB | | | 1 µ F,50V,Electrolytic |
| C611 | VCKYCY1HB272K | AA | | | 0.0027 µ F,50V |
| C612 | VCKYCY1HB272K | AA | | | 0.0027 µ F,50V |
| C613 | VCEAZA1HW105M | AB | | | 1 µ F,50V,Electrolytic |
| C614 | VCEAZA1HW105M | AB | | | 1 µ F,50V,Electrolytic |
| C615 | VCFYFA1HA124J | AB | | | 0.12µF,50V,Thin Film |
| C616 | VCEAZA1HW475M | AB | | | 4.7 µ F,50V,Electrolytic |
| C617 | VCEAZA1HW105M | AB | | | 1 µ F,50V,Electrolytic |
| C618 | VCEAZA1HW105M | AB | | | 1 µ F,50V,Electrolytic |
| C619 | VCEAZA1HW105M | AB | | | 1 µ F,50V,Electrolytic |
| C620 | VCEAZA1HW105M | AB | | | 1 µ F,50V,Electrolytic |
| C621 | VCEAZA1HW105M | AB | | | 1 µ F,50V,Electrolytic |
| C622 | VCEAZA1HW105M | AB | | | 1 µ F,50V,Electrolytic |
| C623 | VCEAZA1HW105M | AB | | | 1 µ F,50V,Electrolytic |
| C624 | VCEAZA1HW105M | AB | | | 1 µ F,50V,Electrolytic |
| C625 | VCKYCY1HB222K | AA | | | 0.0022 µ F,50V |
| C626 | VCKYCY1HB222K | AA | | | 0.0022 µ F,50V |
| C640 | VCEAZA1HW226M | AB | | | 22 µ F,50V,Electrolytic |
| C641 | VCEAZA1AW107M | AB | | | 100 µ F,10V,Electrolytic |
| C651 | VCKYCY1HB221K | AA | | | 220 p F,50V |
| C652 | VCKYCY1HB221K | AA | | | 220 p F,50V |
| C653 | VCKYCY1HB221K | AA | | | 220 p F,50V |
| C661 | VCKYCY1HB681K | AA | | | 680 p F,50V |
| C690 | VCKYCY1HB391K | AA | | | 390 p F,50V |
| C691 | VCKYCY1HB391K | AA | | | 390 p F,50V |
| C693 | VCKYCY1EF104Z | AA | | | 0.1µF,25V |

| NO. | PARTS CODE | PRICE RANK | NEW MARK | PART RANK | DESCRIPTION |
|---|---|---|---|---|---|
| **[7] CAPACITORS** | | | | | |
| C694 | VCKYPA1HB103K | AB | | | 0.01 µ F,50V |
| C701 | VCEAZA1HW105M | AB | | | 1 µ F,50V,Electrolytic |
| C702 | VCEAZA1AW227M | AC | | | 220 µ F,10V,Electrolytic |
| C703 | VCKYCY1EF223Z | AB | | | 0.022 µ F,25V |
| C704 | VCKYCY1EF223Z | AB | | | 0.022 µ F,25V |
| C705 | VCKYCY1EF473Z | AB | | | 0.047 µ F,25V |
| C706 | VCKYCY1EF473Z | AB | | | 0.047 µ F,25V |
| C707 | VCCCCY1HH180J | AA | | | 18 p F (CH),50V |
| C708 | VCCCCY1HH180J | AA | | | 18 p F (CH),50V |
| C709 | VCKYCY1EF223Z | AB | | | 0.022 µ F,25V |
| C710 | VCEAZA1EW476M | AB | | | 47 µ F,25V,Electrolytic |
| C712 | VCEAZA1HW335M | AB | | | 3.3 µ F,50V,Electrolytic |
| C713 | VCKYCY1HB103K | AA | | | 0.01 µ F,50V |
| C714 | VCKYCY1EF473Z | AB | | | 0.047µF,25V |
| C715 | VCKYCY1HB103K | AA | | | 0.01 µ F,50V |
| C716 | VCKYCY1EF223Z | AB | | | 0.022 µ F,25V |
| C717 | VCKYCY1HB473K | AA | | | 0.047 µ F,50V |
| C718 | VCKYCY1HB473K | AA | | | 0.047 µ F,50V |
| C721 | VCEAZA1HW105M | AB | | | 1 µ F,50V,Electrolytic |
| C801 | VCEAZA1VW107M | AC | | | 100 µ F,35V,Electrolytic |
| C802 | VCEAZA1HW476M | AB | | | 47 µ F,50V,Electrolytic |
| C803 | VCEAZA1HW476M | AB | | | 47 µ F,50V,Electrolytic |
| C804 | VCEAZA1JW227M | AB | | | 220 µ F,63V,Electrolytic |
| C805 | VCEAZA2AW226M | AC | | | 22 µ F,100V,Electrolytic |
| C806 | VCFYFA1HA104J | AB | | | 0.1 µ F,50V,Thin Film |
| C807 | VCFYFA1HA104J | AB | | | 0.1 µ F,50V,Thin Film |
| C808 | VCQYKA1HM104K | AB | | | 0.1 µ F,50V,Mylar |
| C809 | VCQYKA1HM104K | AB | | | 0.1 µ F,50V,Mylar |
| C810 | VCFYDA2AA224J | AD | | | 0.22 µ F,50V,Thin Film |
| C811 | VCFYDA2AA224J | AD | | | 0.22 µ F,50V,Thin Film |
| C850 | VCEAZW1EW478M | AK | | | 4700 µ F,25V,Electrolytic |
| C854 | VCEAZA1EW227M | AC | | | 220 µ F,25V,Electrolytic |
| C855 | VCEAZA1HW476M | AB | | | 47 µ F,50V,Electrolytic |
| C856 | VCFYFA1HA104J | AB | | | 0.1µF,50V,Thin Film |
| C859 | VCEAZA1HW226M | AB | | | 22µF,50V,Electrolytic |
| C861 | VCKYPA1HF223Z | AB | | | 0.022 µ F,50V |
| C864 | VCEAZA1EW226M | AB | | | 22 µ F,25V,Electrolytic |
| C865 | VCEAZA1EW226M | AB | | | 22 µ F,25V,Electrolytic |
| C869 | VCKYPA1HF223Z | AB | | | 0.022µF,50V |
| C885 | VCKYCY1HB104K | AA | | | 0.1µF,50V |
| C901 | VCEAZA1HW105M | AB | | | 1 µ F,50V,Electrolytic |
| C902 | VCEAZA1HW105M | AB | | | 1 µ F,50V,Electrolytic |
| C903 | VCKYCY1HB102K | AA | | | 0.001 µ F,50V |
| C904 | VCKYCY1HB102K | AA | | | 0.001 µ F,50V |
| C905 | VCEAZA1HW476M | AB | | | 47 µ F,50V,Electrolytic |
| C906 | VCEAZA1HW476M | AB | | | 47 µ F,50V,Electrolytic |
| C907 | VCCCCY1HH101J | AA | | | 100 p F (CH),50V |
| C908 | VCCCCY1HH3R0C | AA | | | 3 p F (CH),50V |
| C909 | VCQYKA1HM104K | AB | | | 0.1 µ F,50V,Mylar |
| C910 | VCCCCY1HH3R0C | AA | | | 3 p F (CH),50V |
| C911 | VCEAZA2AW107M | AD | | | 100 µ F,100V,Electrolytic |
| C912 | VCEAZA2AW107M | AD | | | 100 µ F,100V,Electrolytic |
| C913 | VCCCCY1HH101J | AA | | | 100 p F (CH),50V |
| C914 | VCEAZA2AW107M | AD | | | 100 µ F,100V,Electrolytic |
| C915 | VCEAZA2AW107M | AD | | | 100 µ F,100V,Electrolytic |
| C916 | VCEAZA1HW107M | AC | | | 100 µ F,50V,Electrolytic |
| C917 | VCKYCY1HB103K | AA | | | 0.01 µ F,50V |
| C918 | VCEAZA1HW107M | AC | | | 100 µ F,50V,Electrolytic |
| C919 | VCKYCY1HB103K | AA | | | 0.01 µ F,50V |
| C920 | RC-EZ0029AWZZ | AN | | | 3300 µ F,71V,Electrolytic |
| C921 | RC-EZ3016AWZZ | AG | | | 4700 µ F,35V,Electrolytic |
| C922 | RC-EZ3016AWZZ | AG | | | 4700 µ F,35V,Electrolytic |
| C923 | RC-EZ0029AWZZ | AN | | | 3300 µ F,71V,Electrolytic |
| C925 | VCEAZA1HW476M | AB | | | 47 µ F,50V,Electrolytic |
| C928 | VCQYKA1HM104K | AB | | | 0.1 µ F,50V,Mylar |
| C929 | VCQYKA1HM104K | AB | | | 0.1 µ F,50V,Mylar |
| C939 | VCEAZA1HW106M | AB | | | 10 µ F,50V,Electrolytic |
| C946 | VCEAZA1HW104M | AB | | | 0.1 µ F,50V,Electrolytic |
| CS01 | VCKYCY1HB102K | AA | | | 0.001 µ F,50V |
| CS03 | VCCCCY1HH101J | AA | | | 100 p F (CH),50V |
| CS07 | VCEAZA1HW226M | AB | | | 22 µ F,50V,Electrolytic |
| CS09 | VCEAZA1HW226M | AB | | | 22 µ F,50V,Electrolytic |
| CS13 | VCEAZA1HW106M | AB | | | 10 µ F,50V,Electrolytic |
| CS15 | VCEAZA1EW476M | AB | | | 47 µ F,25V,Electrolytic |
| CS18 | VCEAZA1CW106M | AC | | | 10 µ F,16V,Electrolytic |
| CS19 | VCKYCY1HB104K | AA | | | 0.1µF,50V |
| **[8] RESISTORS** | | | | | |
| JP1 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP2 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP3 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP4 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green ( MAIN PWB-A1 ) |
| JP4 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green ( CD PWB ) |
| JP6 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP7 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP8 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP9 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green (MAIN PWB-A1) |
| JP9 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green (CD PWB) |

| NO. | PARTS CODE | PRICE RANK | NEW MARK | PART RANK | DESCRIPTION |
|---|---|---|---|---|---|
| **[8] RESISTORS** | | | | | |
| JP10 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green (MAIN PWB-A1) |
| JP10 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green (CD PWB) |
| JP11 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green (MAIN PWB-A1) |
| JP11 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green (CD PWB) |
| JP601 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP608 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP652 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP660 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP665 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP701~706 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP710 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP712 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP714~15 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP717~18 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP721 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP723~24 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP731~32 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP802 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP803 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP804 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP807 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP809 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP810 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP812 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP817 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP819 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP821 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP822 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| JP823 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| R7 | VRD-ST2CD470J | AA | | | 47 ohms,1/6W |
| R8 | VRS-CY1JB100J | AA | | | 10 ohms,1/16W |
| R9 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |
| R10 | VRD-ST2CD562J | AA | | | 5.6 kohms,1/6W |
| R11 | VRD-ST2CD682J | AA | | | 6.8 kohms,1/6W |
| R12 | VRD-ST2CD103J | AA | | | 10 kohms,1/6W |
| R13 | VRD-ST2CD103J | AA | | | 10 kohms,1/6W |
| R14 | VRS-CY1JB103J | AA | | | 10 kohms,1/16W |
| R15 | VRS-CY1JB103J | AA | | | 10 kohms,1/16W |
| R16 | VRS-CY1JB331J | AA | | | 330 ohms,1/16W |
| R17 | VRD-ST2CD330J | AA | | | 33 ohms,1/6W |
| R18 | VRS-CY1JB1R0J | AA | | | 1 ohms,1/16W |
| R19 | VRD-ST2CD682J | AA | | | 6.8 kohms,1/6W |
| R20 | VRD-ST2CD822J | AA | | | 8.2 kohms,1/6W |
| R21 | VRD-ST2CD682J | AA | | | 6.8 kohms,1/6W |
| R22 | VRD-ST2CD682J | AA | | | 6.8 kohms,1/6W |
| R23 | VRD-ST2CD681J | AA | | | 680 ohms,1/6W |
| R24 | VRD-ST2CD681J | AA | | | 680 ohms,1/6W |
| R25 | VRD-ST2CD683J | AA | | | 68 kohms,1/6W |
| R26 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |
| R27 | VRD-ST2CD820J | AA | | | 82 ohms,1/6W |
| R28 | VRS-CY1JB472J | AA | | | 4.7 kohms,1/16W |
| R29 | VRD-ST2CD1R0J | AA | | | 1 ohms,1/6W |
| R30 | VRS-CY1JB271J | AA | | | 270 ohms,1/16W |
| R31 | VRS-CY1JB681J | AA | | | 680 ohms,1/16W |
| R32 | VRS-CY1JB820J | AA | | | 82 ohms,1/16W |
| R33 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R34 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R35 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |
| R36 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R37 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R38 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R39 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R40 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |
| R41 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |
| R42 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |
| R43 | VRS-CY1JB820J | AA | | | 82 ohms,1/16W |
| R44 | VRS-CY1JB332J | AA | | | 3.3 kohms,1/16W |
| R45 | VRS-CY1JB151J | AA | | | 150 ohms,1/16W |
| R46 | VRS-CY1JB223J | AA | | | 22 kohms,1/16W |
| R47 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| R48 | VRS-CY1JB222J | AA | | | 2.2 kohms,1/16W |
| R49 | VRS-CY1JB222J | AA | | | 2.2 kohms,1/16W |
| R50 | VRS-CY1JB103J | AA | | | 10 kohms,1/16W |
| R51 | VRS-CY1JB103J | AA | | | 10 kohms,1/16W ( CD SERVO PWB-C ) |
| R51 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8 x 1.55mm,Green ( MAIN PWB-A1 ) |
| R52 | VRS-CY1JB820J | AA | | | 82 ohms,1/16W ( CD SERVO PWB-C ) |
| R52 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8 x 1.55mm,Green ( MAIN PWB-A1 ) |
| R53 | VRD-ST2EE1R0J | AA | | | 1 ohms,1/4W |
| R54 | VRD-ST2EE1R0J | AA | | | 1 ohms,1/4W |
| R55 | VRS-CY1JB472J | AA | | | 4.7 kohms,1/16W |
| R57 | VRD-ST2CD333J | AA | | | 33 kohms,1/6W |
| R58 | VRS-CY1JB152J | AA | | | 1.5 kohms,1/16W |
| R59 | VRS-CY1JB272J | AA | | | 2.7 kohms,1/16W |
| R60 | VRS-CY1JB152J | AA | | | 1.5 kohms,1/16W |
| R61 | VRS-CY1JB272J | AA | | | 2.7 kohms,1/16W |
| R62 | VRD-ST2CD271J | AA | | | 270 ohms,1/6W |
| R63 | VRS-CY1JB182J | AA | | | 1.8 kohms,1/16W |
| R64 | VRS-CY1JB392J | AA | | | 3.9 kohms,1/16W |
| R65 | VRS-CY1JB182J | AA | | | 1.8 kohms,1/16W |

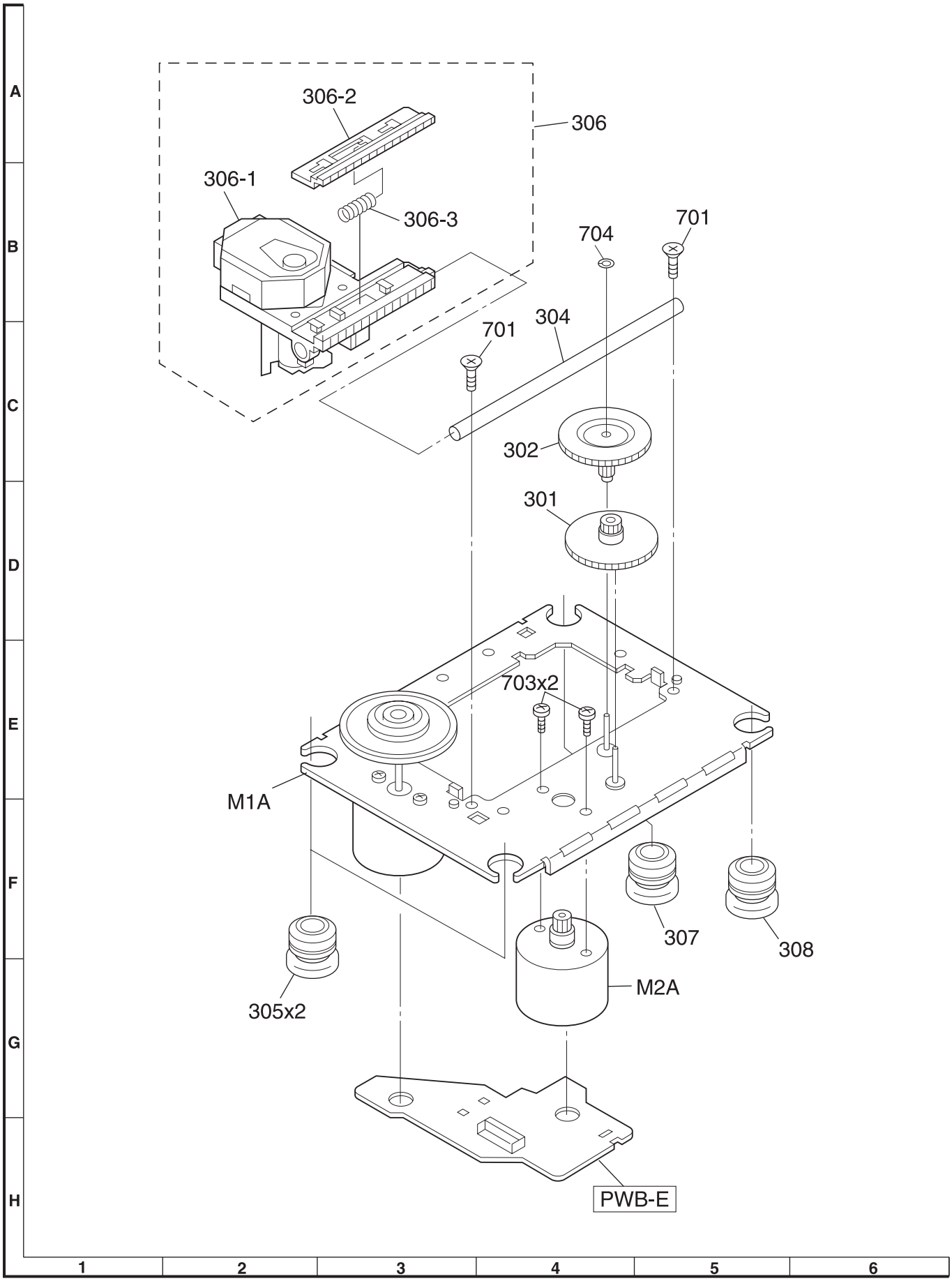
| NO. | PARTS CODE | PRICE RANK | NEW MARK | PART RANK | DESCRIPTION |
|---|---|---|---|---|---|
| **[8] RESISTORS** | | | | | |
| R66 | VRD-ST2CD392J | AA | | | 3.9 kohms,1/6W |
| R67 | VRS-CY1JB225J | AA | | | 2.2 Mohms,1/16W |
| R101 | VRS-CY1JB332J | AA | | | 3.3 kohms,1/16W |
| R102 | VRS-CY1JB332J | AA | | | 3.3 kohms,1/16W |
| R103 | VRS-CY1JB222J | AA | | | 2.2 kohms,1/16W |
| R104 | VRS-CY1JB222J | AA | | | 2.2 kohms,1/16W |
| R105 | VRS-CY1JB332J | AA | | | 3.3 kohms,1/16W |
| R106 | VRS-CY1JB332J | AA | | | 3.3 kohms,1/16W |
| R107 | VRS-CY1JB473J | AA | | | 47 kohms,1/16W |
| R108 | VRS-CY1JB473J | AA | | | 47 kohms,1/16W |
| R109 | VRS-CY1JB472J | AA | | | 4.7 kohms,1/16W |
| R110 | VRS-CY1JB472J | AA | | | 4.7 kohms,1/16W |
| R111 | VRD-ST2CD153J | AA | | | 15 kohms,1/6W |
| R112 | VRS-CY1JB153J | AA | | | 15 kohms,1/16W |
| R113 | VRD-ST2CD332J | AA | | | 3.3 kohms,1/6W |
| R114 | VRD-ST2CD332J | AA | | | 3.3 kohms,1/6W |
| R115 | VRD-ST2CD560J | AA | | | 56 ohms,1/6W |
| R116 | VRD-ST2CD560J | AA | | | 56 ohms,1/6W |
| R117 | VRS-CY1JB104J | AA | | | 100 kohms,1/16W |
| R118 | VRS-CY1JB104J | AA | | | 100 kohms,1/16W |
| R119 | VRS-CY1JB392J | AA | | | 3.9 kohms,1/16W |
| R120 | VRS-CY1JB392J | AA | | | 3.9 kohms,1/16W |
| R121 | VRS-CY1JB183J | AA | | | 18 kohms,1/16W |
| R122 | VRS-CY1JB183J | AA | | | 18 kohms,1/16W |
| R123 | VRS-CY1JB682J | AA | | | 6.8 kohms,1/16W |
| R124 | VRS-CY1JB682J | AA | | | 6.8 kohms,1/16W |
| R126 | VRS-CY1JB562J | AA | | | 5.6 kohms,1/16W |
| R127 | VRS-CY1JB562J | AA | | | 5.6 kohms,1/16W |
| R128 | VRS-CY1JB392J | AA | | | 3.9 kohms,1/16W |
| R129 | VRS-CY1JB392J | AA | | | 3.9 kohms,1/16W |
| R130 | VRS-CY1JB222J | AA | | | 2.2 kohms,1/16W |
| R131 | VRS-CY1JB222J | AA | | | 2.2 kohms,1/16W |
| R132 | VRS-CY1JB151J | AA | | | 150 ohms,1/16W |
| R133 | VRS-CY1JB151J | AA | | | 150 ohms,1/16W |
| R134 | VRS-CY1JB103J | AA | | | 10 kohms,1/16W |
| R135 | VRS-CY1JB103J | AA | | | 10 kohms,1/16W |
| R136 | VRS-CY1JB184J | AA | | | 180 kohms,1/16W |
| R137 | VRS-CY1JB184J | AA | | | 180 kohms,1/16W |
| R138 | VRS-CY1JB103J | AA | | | 10 kohms,1/16W |
| R139 | VRS-CY1JB103J | AA | | | 10 kohms,1/16W |
| R140 | VRS-CY1JB473J | AA | | | 47 kohms,1/16W |
| R141 | VRS-CY1JB472J | AA | | | 4.7 kohms,1/16W |
| R142 | VRD-RT2HD820J | AA | | | 82 ohms,1/2W |
| R143 | VRS-CY1JB473J | AA | | | 47 kohms,1/16W |
| R144 | VRS-CY1JB223J | AA | | | 22 kohms,1/16W |
| R145 | VRD-ST2CD4R7J | AA | | | 4.7 ohms,1/6W |
| R146 | VRS-CY1JB103J | AA | | | 10 kohms,1/16W |
| R147 | VRS-CY1JB103J | AA | | | 10 kohms,1/16W |
| R148 | VRS-CY1JB472J | AA | | | 4.7 kohms,1/16W |
| R149 | VRD-ST2EE151J | AA | | | 150 ohms,1/4W |
| R150 | VRS-CY1JB683J | AA | | | 68 kohms,1/16W |
| R151 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| R152 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| R158 | VRD-ST2EE221J | AA | | | 220 ohms,1/4W |
| R601 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |
| R602 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |
| R603 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |
| R606 | VRS-CY1JB472J | AA | | | 4.7 kohms,1/16W |
| R607 | VRS-CY1JB472J | AA | | | 4.7 kohms,1/16W |
| R608 | VRS-CY1JB152J | AA | | | 1.5 kohms,1/16W |
| R609 | VRS-CY1JB152J | AA | | | 1.5 kohms,1/16W |
| R614 | VRS-CY1JB472J | AA | | | 4.7 kohms,1/16W |
| R615 | VRS-CY1JB472J | AA | | | 4.7 kohms,1/16W |
| R616 | VRS-CY1JB222J | AA | | | 2.2 kohms,1/16W |
| R617 | VRS-CY1JB222J | AA | | | 2.2 kohms,1/16W |
| R618 | VRD-ST2CD331J | AA | | | 330 ohms,1/6W |
| R619 | VRS-CY1JB331J | AA | | | 330 ohms,1/16W |
| R620 | VRS-CY1JB223J | AA | | | 22 kohms,1/16W |
| R622 | VRD-ST2CD103J | AA | | | 10 kohms,1/6W |
| R623 | VRS-CY1JB183J | AA | | | 18 kohms,1/16W |
| R630 | VRS-CY1JB474J | AA | | | 470 kohms,1/16W |
| R631 | VRS-CY1JB104J | AA | | | 100 kohms,1/16W |
| R641 | VRS-CY1JB223J | AA | | | 22 kohms,1/16W |
| R642 | VRD-ST2CD223J | AA | | | 22 kohms,1/6W |
| R643 | VRS-CY1JB332J | AA | | | 3.3 kohms,1/16W |
| R644 | VRS-CY1JB332J | AA | | | 3.3 kohms,1/16W |
| R682 | VRD-ST2CD103J | AA | | | 10 kohms,1/6W |
| R683 | VRS-CY1JB183J | AA | | | 18 kohms,1/16W |
| R685 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R690 | VRD-ST2CD682J | AA | | | 6.8 kohms,1/6W |
| R691 | VRD-ST2CD682J | AA | | | 6.8 kohms,1/6W |
| R692 | VRD-ST2CD333J | AA | | | 33 kohms,1/6W |
| R693 | VRD-ST2CD333J | AA | | | 33 kohms,1/6W |
| R701 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |
| R702 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |
| R703 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R704 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R705 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R706 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |

| NO. | PARTS CODE | PRICE RANK | NEW MARK | PART RANK | DESCRIPTION |
|---|---|---|---|---|---|
| **[8] RESISTORS** | | | | | |
| R708 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R709 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R710 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R711 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R712 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R713 | VRS-CY1JB182J | AA | | | 1.8 kohms,1/16W |
| R714 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R715 | VRS-CY1JB221J | AA | | | 220 ohms,1/16W |
| R716 | VRD-ST2CD221J | AA | | | 220 ohms,1/6W |
| R717 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |
| R718 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R719 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R720 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |
| R721 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R722 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R723 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R724 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |
| R725 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R726 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R727 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R728 | VRS-CY1JB561J | AA | | | 560 ohms,1/16W |
| R729 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R730 | VRS-CY1JB681J | AA | | | 680 ohms,1/16W |
| R731 | VRD-ST2CD222J | AA | | | 2.2 kohms,1/6W |
| R732 | VRS-CY1JB681J | AA | | | 680 ohms,1/16W |
| R733 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |
| R734 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |
| R736 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |
| R741 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |
| R742 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |
| R743 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |
| R745 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |
| R747 | VRD-ST2EE1R5J | AA | | | 1.5 ohms,1/4W |
| R750 | VRS-CY1JB473J | AA | | | 47 kohms,1/16W |
| R752 | VRD-ST2EE181J | AA | | | 180 ohms,1/4W ( LED PWB-D ) Use 2 pcs |
| R753 | VRS-CY1JB103J | AA | | | 10 kohms,1/16W |
| R754 | VRD-ST2EE331J | AA | | | 330 ohms,1/4W |
| R756 | VRD-ST2CD182J | AA | | | 1.8 kohms,1/6W |
| R757 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R758 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R759 | VRD-ST2CD122J | AA | | | 1.2 kohms,1/6W |
| R760 | VRS-CY1JB103J | AA | | | 10 kohms,1/16W |
| R761 | VRS-CY1JB103J | AA | | | 10 kohms,1/16W |
| R762 | VRS-CY1JB103J | AA | | | 10 kohms,1/16W |
| R763 | VRD-ST2CD103J | AA | | | 10 kohms,1/6W |
| R764 | VRS-CY1JB472J | AA | | | 4.7 kohms,1/16W |
| R765 | VRS-CY1JB472J | AA | | | 4.7 kohms,1/16W |
| R766 | VRS-CY1JB272J | AA | | | 2.7 kohms,1/16W |
| R769 | VRS-CY1JB472J | AA | | | 4.7 kohms,1/16W |
| R770 | VRS-CY1JB103J | AA | | | 10 kohms,1/16W |
| R771 | VRS-CY1JB103J | AA | | | 10 kohms,1/16W |
| R772 | VRS-CY1JB103J | AA | | | 10 kohms,1/16W |
| R773 | VRS-CY1JB122J | AA | | | 1.2 kohms,1/16W |
| R774 | VRS-CY1JB103J | AA | | | 10 kohms,1/16W |
| R775 | VRS-CY1JB103J | AA | | | 10 kohms,1/16W |
| R776 | VRD-ST2CD473J | AA | | | 47 kohms,1/6W |
| R777 | VRS-CY1JB104J | AA | | | 100 kohms,1/16W |
| R778 | VRD-ST2CD101J | AA | | | 100 ohms,1/6W |
| R779 | VRS-CY1JB103J | AA | | | 10 kohms,1/16W |
| R780 | VRS-CY1JB103J | AA | | | 10 kohms,1/16W |
| R781 | VRD-ST2CD103J | AA | | | 10 kohms,1/6W |
| R784 | VRS-CY1JB182J | AA | | | 1.8 kohms,1/16W |
| R785 | VRS-CY1JB182J | AA | | | 1.8 kohms,1/16W |
| R786 | VRD-ST2EE1R5J | AA | | | 1.5 ohms,1/4W |
| R787 | VRS-CY1JB104J | AA | | | 100 kohms,1/16W |
| R788 | VRD-ST2CD392J | AA | | | 3.9 kohms,1/6W |
| R801 | VRD-ST2CD104J | AA | | | 100 kohms,1/6W |
| R802 | VRD-ST2CD473J | AA | | | 47 kohms,1/6W |
| R803 | VRD-ST2CD123J | AA | | | 12 kohms,1/6W |
| R804 | VRD-ST2EE470J | AA | | | 47 ohms,1/4W |
| R805 | VRD-ST2EE470J | AA | | | 47 ohms,1/4W |
| R806 | VRD-ST2CD473J | AA | | | 47 kohms,1/6W |
| R808 | VRD-RT2HD222J | AA | | | 2.2 kohms,1/2W |
| R853 | VRD-ST2CD223J | AA | | | 22 kohms,1/6W |
| R854 | VRD-ST2CD332J | AA | | | 3.3 kohms,1/6W |
| R857 | VRD-ST2CD223J | AA | | | 22 kohms,1/6W |
| R859 | VRD-ST2CD103J | AA | | | 10 kohms,1/6W |
| R863 | VRD-RT2HD3R3J | AA | | | 3.3 ohms,1/2W |
| R864 | VRD-ST2CD223J | AA | | | 22 kohms,1/6W |
| R885 | VRS-CY1JB821J | AA | | | 820 ohms,1/16W |
| R886 | VRS-CY1JB223J | AA | | | 22 kohms,1/16W |
| R887 | VRS-CY1JB223J | AA | | | 22 kohms,1/16W |
| R888 | VRD-ST2CD473J | AA | | | 47 kohms,1/6W |
| R889 | VRD-ST2CD473J | AA | | | 47 kohms,1/6W |
| R891 | VRD-ST2EE101J | AA | | | 100 ohms,1/4W |
| R901 | VRS-CY1JB563J | AA | | | 56 kohms,1/16W |
| R902 | VRS-CY1JB563J | AA | | | 56 kohms,1/16W |
| R903 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R904 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |

| NO. | PARTS CODE | PRICE RANK | NEW MARK | PART RANK | DESCRIPTION |
|---|---|---|---|---|---|
| **[8] RESISTORS** | | | | | |
| R905 | VRS-CY1JB561J | AA | | | 560 ohms,1/16W |
| R906 | VRS-CY1JB561J | AA | | | 560 ohms,1/16W |
| R907 | VRS-CY1JB563J | AA | | | 56 kohms,1/16W |
| R908 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| R909 | VRS-CY1JB333J | AA | | | 33 kohms,1/16W |
| R910 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |
| R911 | VRS-CY1JB563J | AA | | | 56 kohms,1/16W |
| ⚠ R912 | VRG-ST2EC101J | AB | | | 100 ohms,1/4W,Fusible |
| R913 | VRN-VV3LAR22J | AC | | | 0.22 kohms,3W |
| R916 | VRN-VV3LAR22J | AC | | | 0.22 kohms,3W |
| R917 | VRN-VV3LAR10J | AD | | | 0.1 kohms,3W |
| R918 | VRD-ST2CD152J | AA | | | 1.5 kohms,1/6W |
| R919 | VRS-CY1JB182J | AA | | | 1.8 kohms,1/16W |
| R920 | VRS-CY1JB182J | AA | | | 1.8 kohms,1/16W |
| R921 | VRD-ST2CD152J | AA | | | 1.5 kohms,1/6W |
| R922 | VRN-VV3LAR10J | AD | | | 0.1 kohms,3W |
| R925 | VRD-RT2HD152J | AA | | | 1.5 kohms,1/2W |
| R926 | VRD-RT2HD152J | AA | | | 1.5 kohms,1/2W |
| R927 | VRD-ST2EE393J | AA | | | 39 kohms,1/4W |
| R928 | VRD-ST2EE393J | AA | | | 39 kohms,1/4W |
| R929 | VRD-ST2EE473J | AA | | | 47 kohms,1/4W |
| R930 | VRD-ST2EE473J | AA | | | 47 kohms,1/4W |
| R934 | VRD-ST2CD563J | AA | | | 56 kohms,1/6W |
| R935 | VRD-ST2CD563J | AA | | | 56 kohms,1/6W |
| R937 | VRS-CY1JB563J | AA | | | 56 kohms,1/16W |
| R938 | VRD-RT2HD100J | AA | | | 10 ohms,1/2W |
| R939 | VRD-RT2HD100J | AA | | | 10 ohms,1/2W |
| R940 | VRD-RT2HD100J | AA | | | 10 ohms,1/2W |
| R941 | VRD-RT2HD100J | AA | | | 10 ohms,1/2W |
| R942 | VRN-VV3DA471J | AC | | | 470 ohms,2W |
| R943 | VRN-VV3DA471J | AC | | | 470 ohms,2W |
| R944 | VRD-ST2CD152J | AA | | | 1.5 kohms,1/6W |
| R945 | VRD-ST2CD152J | AA | | | 1.5 kohms,1/6W |
| R946 | VRS-CY1JB473J | AA | | | 47 kohms,1/16W |
| R947 | VRS-CY1JB153J | AA | | | 15 kohms,1/16W |
| R949 | VRD-RT2HD102J | AA | | | 1 kohms,1/2W |
| R950 | VRD-ST2CD683J | AA | | | 68 kohms,1/6W |
| R956 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| ⚠ R958 | VRG-ST2EC101J | AB | | | 100 ohms,1/4W,Fusible |
| R968 | VRD-ST2CD223J | AA | | | 22 kohms,1/6W |
| R983 | VRS-CY1JB333J | AA | | | 33 kohms,1/16W |
| R984 | VRS-CY1JB821J | AA | | | 820 ohms,1/16W |
| R985 | VRS-CY1JB822J | AA | | | 8.2 kohms,1/16W |
| R986 | VRS-CY1JB822J | AA | | | 8.2 kohms,1/16W |
| R987 | VRS-CY1JB222J | AA | | | 2.2 kohms,1/16W |
| R988 | VRS-CY1JB222J | AA | | | 2.2 kohms,1/16W |
| R990 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |
| RD01 | VRS-CY1JB681J | AA | | | 680 ohms,1/16W |
| RD02 | VRS-CY1JB821J | AA | | | 820 ohms,1/16W |
| RD03 | VRD-ST2CD102J | AA | | | 1 kohms,1/6W |
| RD04 | VRS-CY1JB152J | AA | | | 1.5 kohms,1/16W |
| RD05 | VRD-ST2CD681J | AA | | | 680 ohms,1/6W |
| RD06 | VRS-CY1JB821J | AA | | | 820 ohms,1/16W |
| RD07 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| RD09 | VRS-CY1JB681J | AA | | | 680 ohms,1/16W |
| RD10 | VRS-CY1JB821J | AA | | | 820 ohms,1/16W |
| RD11 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| RD12 | VRS-CY1JB152J | AA | | | 1.5 kohms,1/16W |
| RD13 | VRS-CY1JB222J | AA | | | 2.2 kohms,1/16W |
| RS01 | VRS-CY1JB103J | AA | | | 10 kohms,1/16W |
| RS03 | VRS-CY1JB103J | AA | | | 10 kohms,1/16W |
| RS05 | VRS-CY1JB473J | AA | | | 47 kohms,1/16W |
| RS07 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| RS09 | VRS-CY1JB102J | AA | | | 1 kohms,1/16W |
| RS11 | VRS-CY1JB471J | AA | | | 470 kohms,1/16W |
| RS15 | VRS-CY1JB473J | AA | | | 47 kohms,1/16W |
| RS17 | VRS-CY1JB104J | AA | | | 100 kohms,1/16W |
| RS19 | VRS-CY1JB123J | AA | | | 12 kohms,1/16W |
| RS21 | VRD-ST2CD103J | AA | | | 10 kohms,1/6W |
| RS22 | VRD-ST2CD103J | AA | | | 10 kohms,1/6W |
| RS23 | VRD-ST2CD103J | AA | | | 10 kohms,1/6W |
| RS24 | VRD-ST2CD472J | AA | | | 4.7 kohms,1/6W |
| RS25 | VRD-ST2CD333J | AA | | | 33 kohms,1/6W |
| RS27 | VRS-CY1JB122J | AA | | | 1.2 kohms,1/16W |
| RS29 | VRS-CY1JB473J | AA | | | 47 kohms,1/16W |
| RS30 | VRS-CY1JB000J | AA | | | 0 ohms,Jumper,0.8x1.55mm,Green |
| RS35 | VRS-CY1JB103J | AA | | | 10 kohms,1/16W |
| **[9] OTHER CIRCUITRY PARTS** | | | | | |
| BI601/CNS601 | QCNWNA261AWPZ | AG | | | Connector Assy,8/7Pin |
| BI603/CNS603 | QCNWN2714AWPZ | AK | | | Connector Ass'y,6/5Pin |
| BI702/CNS702 | QCNWNA267AWPZ | AF | | | Connector Ass'y,9/10Pin |
| BI801/CNS801 | QCNWNA270AWPZ | AK | | | Connector Ass'y,9/10Pin |
| CNP1 | QCNCWYP16AWZZ | AD | | | Socket,16Pin |
| CNP2 | 92LCONE4P53253 | AB | | | Plug,4Pin |
| CNP2A | 92LCONE4P53254 | AB | | | Plug,4Pin |
| CNP3 | 92LCONE7P53254 | AB | | | Plug,7Pin |
| CNP4 | QCNCWZX11AWZZ | AC | | | Socket,11Pin |

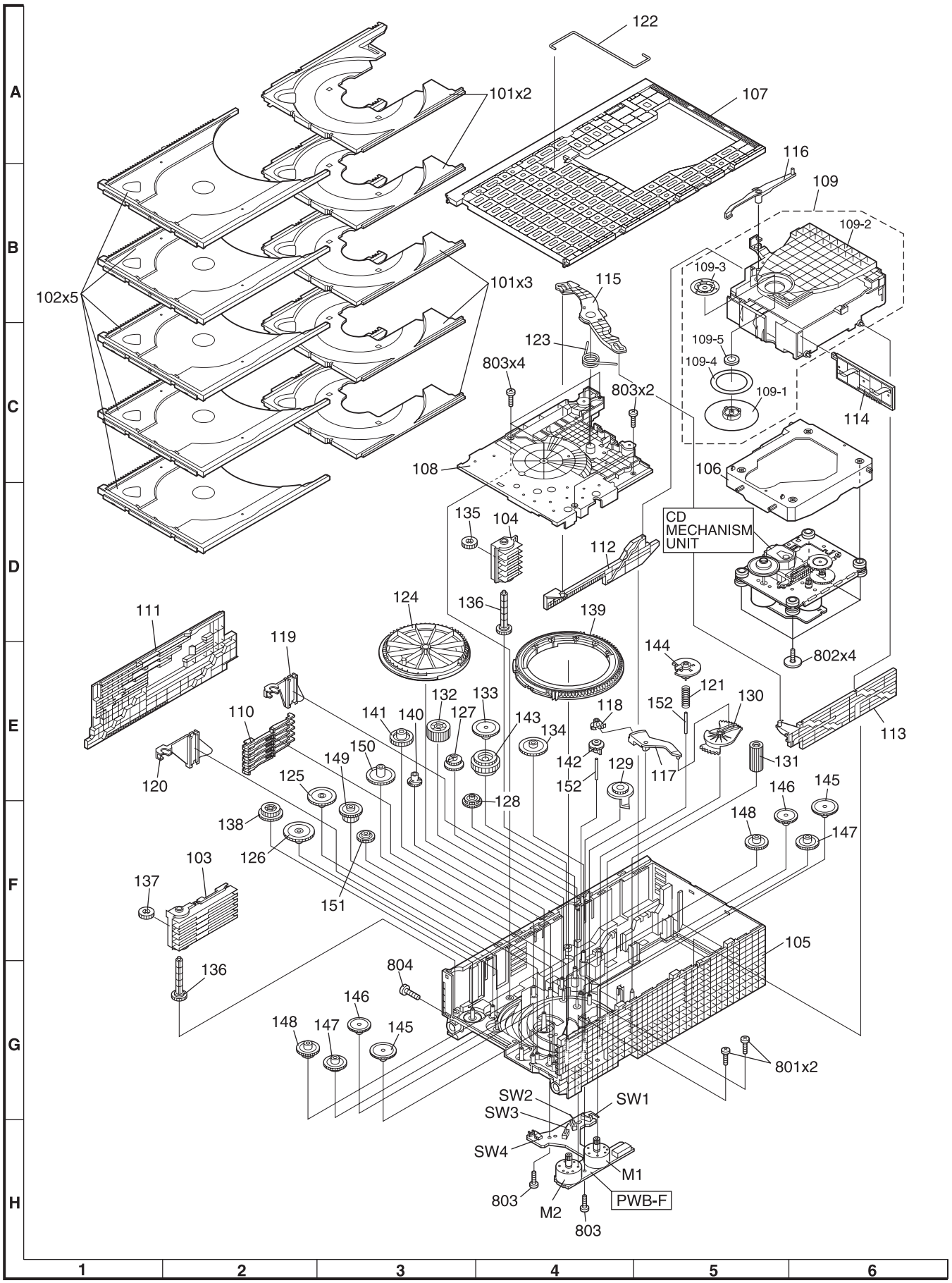
| NO. | PARTS CODE | PRICE RANK | NEW MARK | PART RANK | DESCRIPTION |
|---|---|---|---|---|---|
| **[9] OTHER CIRCUITRY PARTS** | | | | | |
| CNP4A | QCNCWZO11AWZZ | AC | | | Socket,11Pin |
| CNP7 | QCNCWZY14AWZZ | AG | | | Socket,14Pin |
| CNP101 | QCNCM705CAFZZ | AA | | | Plug,3Pin |
| CNP102 | QCNCM705GAFZZ | AB | | | Plug,7Pin |
| CNP303 | QCNCWZX11AWZZ | AC | | | Socket,11Pin |
| CNP603 | 92LCONE5P53253 | AB | | | Plug,5Pin |
| CNP702 | QCNCWZY07AWZZ | AC | | | Socket,7Pin |
| CNP703 | QCNCWZY14AWZZ | AD | | | Socket,14Pin |
| CNP707 | QCNCM704BAFZZ | AA | | | Plug,2Pin (Use in LED PWB-D) Use 2 pcs |
| CNP701A | QCNCWZY20AWZZ | AD | | | Socket,20Pin |
| CNP701B | QCNCWZX20AWZZ | AD | | | Socket,20Pin |
| CNP801 | QCNCM035KAWZZ | AG | | | Plug,9Pin |
| CNP802 | 92LCONE6P53253 | AC | | | Plug,6Pin |
| ⚠ CNP805 | QCNCM049BAWZZ | AC | | | Plug,2Pin |
| CNP901 | QCNCW012EAWZZ | AC | | | Socket,5Pin |
| CNP971 | 92LCONE2P53253 | AB | | | Plug,2Pin |
| CNS01 | QCNCM704BAFZZ | AA | | | Plug,2Pin |
| CNS02 | QCNCM704BAFZZ | AA | | | Plug,2Pin |
| CON / WIRE | QCNWNA080AWPZ | AC | | | Connector Ass'y,2Pin |
| CON / WIRE | QCNWNA309AWPZ | AC | | | Connector Ass'y |
| CON / WIRE | QCNWNA558AWPZ | AF | | | Connector Ass'y,4Pin |
| ⚠ F801 | QFS-D502BSJNI | AE | | | Fuse,5A,125V |
| ⚠ F802 | QFS-D502BSJNI | AE | | | Fuse,5A,125V |
| ⚠ F803 | QFS-D202BSJNI | AB | | | Fuse,2A,125V |
| ⚠ F804 | QFS-D202BSJNI | AB | | | Fuse,2A,125V |
| ⚠ F805 | QFS-D502BSJNI | AE | | | Fuse,5A,125V |
| FFC1 | QCNWN2700AWPZ | AD | | | Flat Cable,16 Pin |
| FFC4 | QCNWN2701AWPZ | AD | | | Flat Cable,11 Pin |
| FFC303 | QCNWN2525AWPZ | AD | | | Flat Cable,11 Pin |
| FFC701 | QCNWNA128AWPZ | AD | | | Flat Cable,20 Pin |
| FFC702 | QCNWN2495AWPZ | AD | | | Flat Cable,7 Pin |
| FFC703 | QCNWN2717AWPZ | AD | | | Flat Cable,11 Pin |
| ⚠ FH801 | 92LFSHOLD1652T | AB | | | Fuse Holder |
| ⚠ FH802 | 92LFSHOLD1652T | AB | | | Fuse Holder |
| ⚠ FH803 | 92LFSHOLD1652T | AB | | | Fuse Holder |
| ⚠ FH804 | 92LFSHOLD1652T | AB | | | Fuse Holder |
| ⚠ FH805 | 92LFSHOLD1652T | AB | | | Fuse Holder |
| ⚠ FH806 | 92LFSHOLD1652T | AB | | | Fuse Holder |
| ⚠ FH807 | 92LFSHOLD1652T | AB | | | Fuse Holder |
| ⚠ FH808 | 92LFSHOLD1652T | AB | | | Fuse Holder |
| ⚠ FH809 | 92LFSHOLD1652T | AB | | | Fuse Holder |
| ⚠ FH810 | 92LFSHOLD1652T | AB | | | Fuse Holder |
| FL701 | VVKNA12MM54-1 | AU | | | FL Display |
| FW901 | QCNWN2711AWPZ | AD | | | Flat Wire |
| JK690 | QSOCJ0313AWZZ | AF | | | Jack,Game Input |
| JK691 | QSOCJ0120AWZZ | AD | | | Jack,Video Out |
| JK692 | QJAKM0004AWZZ | AK | | | Jack,Headphones |
| JOG701 | QSW-ZA001AWZZ | AE | | | Volume Variable |
| LG1 | QLUGPA001AWZZ | AC | | | Lug Terminal |
| LG2 | QLUGPA001AWZZ | AC | | | Lug Terminal |
| LG3 | QLUGPA001AWZZ | AC | | | Lug Terminal |
| LG4 | QLUGPA001AWZZ | AC | | | Lug Terminal |
| LUG WIRE | QCNWN1860AWZZ | AC | | | Lug Wire |
| LUG WIRE | QCNWNA139AWPZ | AC | | | Lug Wire |
| LUG2 | QCNWNA527AWPZ | AC | | | Lug Wire |
| LUG3 | QLUGP0002AWZZ | AB | | | Lug Terminal |
| RL914 | RRLYD0016AWZZ | AH | | | Relay,Speaker |
| RX701 | VHLK603TH2E-1 | AG | | | Remote Sensor,603TH2E-1 |
| SO901 | QTANA0424AWZZ | AE | | | Terminal,Speaker |
| SW1 | QSW-P9003AWZZ | AD | | | Switch,Push type [CLAMP] |
| SW2 | QSW-P9003AWZZ | AD | | | Switch,Push type [TRAY 1] |
| SW3 | QSW-P9003AWZZ | AD | | | Switch,Push type [TRAY 2] |
| SW4 | QSW-P9006AWZZ | AF | | | Switch,Push type [DISC] |
| SW701 | 92LSWICH1401AT | AC | | | Switch,Key Type [ POWER ] |
| SW702 | 92LSWICH1401AT | AC | | | Switch,Key Type [ CD ] |
| SW703 | 92LSWICH1401AT | AC | | | Switch,Key Type [ TUNER (BAND ) ] |
| SW704 | 92LSWICH1401AT | AC | | | Switch,Key Type [ AUX ] |
| SW705 | 92LSWICH1401AT | AC | | | Switch,Key Type [ TAPE ] |
| SW707 | 92LSWICH1401AT | AC | | | Switch,Key Type [ PLAY/PAUSE ] |
| SW708 | 92LSWICH1401AT | AC | | | Switch,Key Type [ PRESET UP ] |
| SW709 | 92LSWICH1401AT | AC | | | Switch,Key Type [ PRESET DOWN ] |
| SW710 | 92LSWICH1401AT | AC | | | Switch,Key Type [ STOP ] |
| SW711 | 92LSWICH1401AT | AC | | | Switch,Key Type [ DISC 1 ] |
| SW712 | 92LSWICH1401AT | AC | | | Switch,Key Type [ DISC 2 ] |
| SW713 | 92LSWICH1401AT | AC | | | Switch,Key Type [ DISC 3 ] |
| SW714 | 92LSWICH1401AT | AC | | | Switch,Key Type [ DISC 4 ] |
| SW715 | 92LSWICH1401AT | AC | | | Switch,Key Type [ DISC 5 ] |
| SW716 | 92LSWICH1401AT | AC | | | Switch,Key Type [ CD OPEN / CLOSE ] |
| WTM901 | QCNCW019EAWZZ | AB | | | Socket,5Pin |

**[10] CD MECHANISM PARTS**



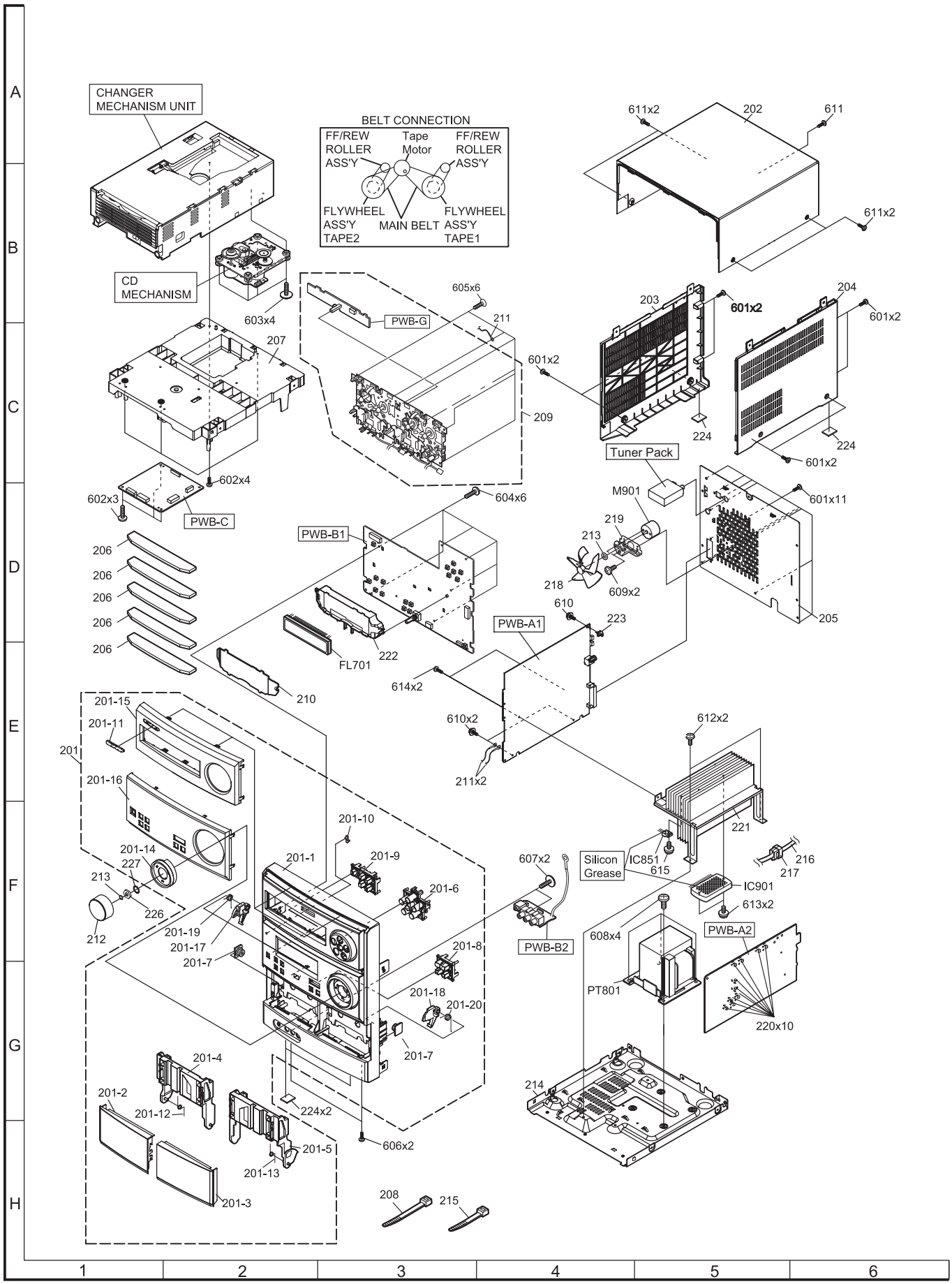
| NO. | PARTS CODE | PRICE RANK | NEW MARK | PART RANK | DESCRIPTION |
|---|---|---|---|---|---|
| **[10] CD MECHANISM PARTS** | | | | | |
| 301 | NGERH0011AWZZ | AC | | | Gear,Middle |
| 302 | NGERH0012AWZZ | AC | | | Gear,Drive |
| 304 | NSFTM0020AWFW | AD | | | Shaft,Guide |
| 305 | 92LMCUSN1524A | AD | | | Cushion |
| ⚠ 306 | 92LHPC1LVASY | AZ | | | Pickup Unit Ass'y |
| 306- 1 | ---------- | - | | | Pickup Unit (Not Replacement Item) |
| 306- 2 | NGERR0043AFZZ | AC | | | Gear,Rack |
| 306- 3 | MSPRC0961AFZZ | AA | | | Spring,Rack |
| 307 | PCUSG0001AWSA | AD | | | Cushion |
| 308 | PCUSG0004AWSA | AD | | | Cushion |
| 701 | XBSY726P06000 | AA | | | Screw,M2.6x6mm |
| 703 | XBBY720P03000 | AA | | | Screw,M2x3mm |
| 704 | LX-WZ1070AFZZ | AA | | | Washer,M1.5xM3.8x0.25mm |
| M1A | 92LMTR6447CASY | AQ | | | Motor with Chassis [Spindle] |
| M2A | 92LMTR6447BASY | AN | | | Motor with Gear [Sled] |

## [11] CHANGER MECHANISM PARTS



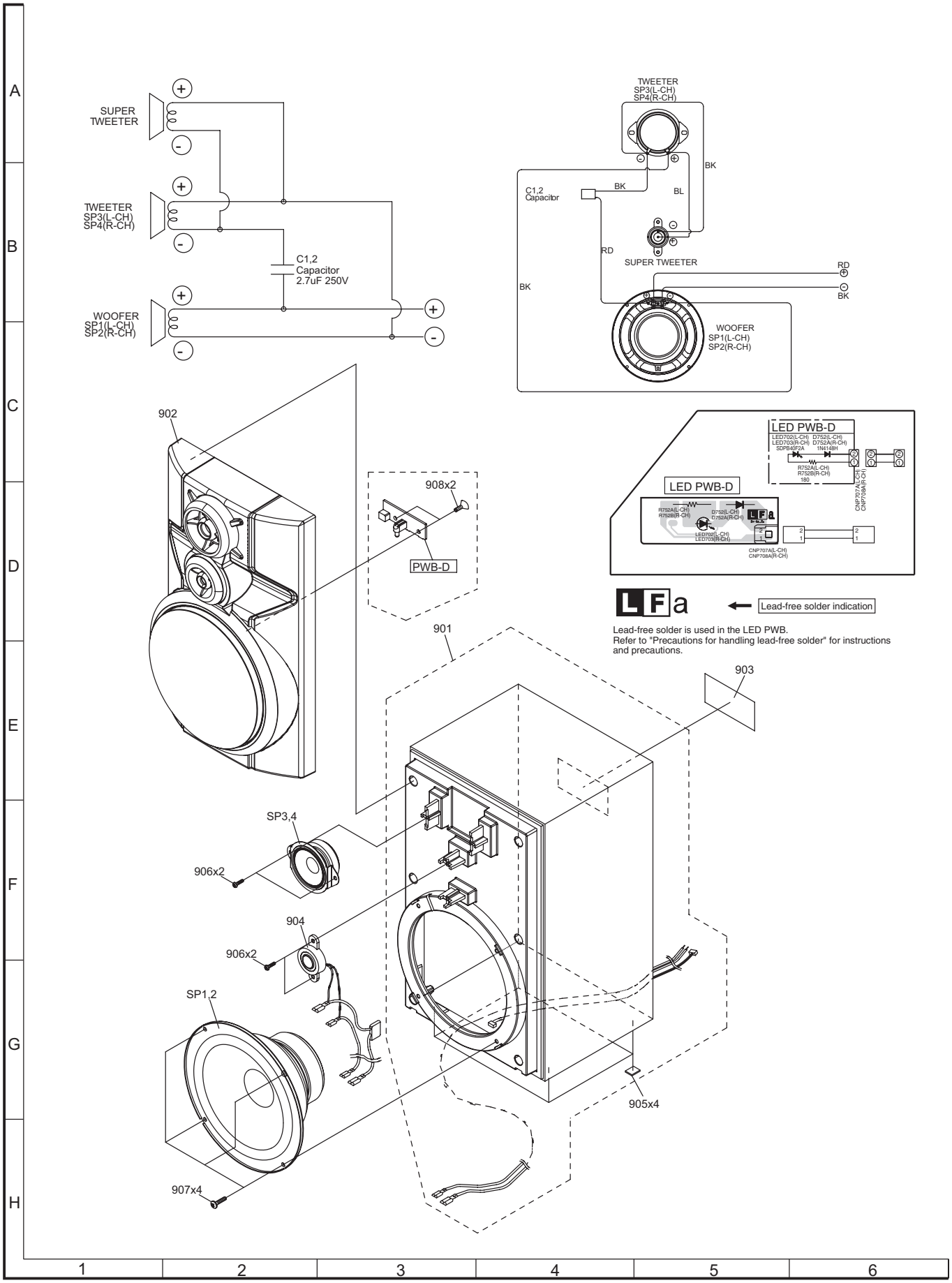
| NO. | PARTS CODE | PRICE RANK | NEW MARK | PART RANK | DESCRIPTION |
|---|---|---|---|---|---|
| **[11] CHANGER MECHANISM PARTS** | | | | | |
| 101 | GCOVA1513AWZZ | AF | | | Disc Tray |
| 102 | GCOVA1514AWZZ | AF | | | Guide Tray |
| 103 | LANGG0008AWZZ | AD | | | Outer Tray Guide |
| 104 | LANGG0009AWZZ | AC | | | Inner Tray Guide |
| 105 | LCHSM0194AWZZ | AP | | | Main Base |
| 106 | LHLDZ9017AWZZ | AF | | | CD Mechanism Holder |
| 107 | LPLTP0014AWZZ | AK | | | Top Plate |
| 108 | LPLTP0015AWZZ | AG | | | Gear Plate |
| 109 | MHOLD5529ASY | AP | | | Up/Down Holder Ass'y |
| 109- 1 | LHLDM9001AWZZ | AD | | | Stabilizer |
| 109- 2 | LHLDZ9019AWM1 | AK | | | Up/Down Holder Ass'y |
| 109- 3 | LPLTM0017AWZZ | AB | | | Stabilizer Plate |
| 109- 4 | LPLTMA001AWFW | AC | | | Plate |
| 109- 5 | PMAGF0003AWZZ | AF | | | Magnet |
| 110 | MLEVP0129AWZZ | AC | | | Tray Lock Lever |
| 111 | MLEVP0130AWZZ | AG | | | Gear Up/Down Board |
| 112 | MLEVP0131AWZZ | AD | | | Mechanism Up/Down Board (L) |
| 113 | MLEVP0132AWZZ | AD | | | Mechanism Up/Down Board (R) |
| 114 | MLEVP0133AWZZ | AC | | | Mechanism Clamp Board |
| 115 | MLEVP0134AWZZ | AD | | | L/R Joint Lever |
| 116 | MLEVP0135AWZZ | AC | | | Tray Set Lever |
| 117 | MLEVP0136AWZZ | AC | | | Mechanism Clamp Switch Lever |
| 118 | MLEVP0137AWZZ | AC | | | Mechanism Clamp Switch Arm |
| 119 | MLEVP0138AWZZ | AB | | | Inner Gear Up/Down Lever |
| 120 | MLEVP0139AWZZ | AC | | | Outer Gear Up/Down Lever |
| 121 | MSPRC0044AWFJ | AB | | | Shift Spring |
| 122 | MSPRD0191AWFJ | AC | | | Disc Stop Spring |
| 123 | MSPRD0192AWFJ | AB | | | Balance Spring |
| 124 | NGERH0176AWZZ | AF | | | Tray Big Gear |
| 125 | NGERH0177AWZZ | AC | | | Tray Front Gear A |
| 126 | NGERH0178AWZZ | AC | | | Tray Front Gear B |
| 127 | NGERH0179AWZZ | AC | | | Tray Rear Gear A |
| 128 | NGERH0180AWZZ | AB | | | Tray Rear Gear B |
| 129 | NGERH0181AWZZ | AC | | | Mechanism Clamp Gear A |
| 130 | NGERH0182AWZZ | AC | | | Mechanism Clamp Joint Gear |
| 131 | NGERH0183AWZZ | AC | | | Mechanism Clamp Board Gear |
| 132 | NGERH0184AWZZ | AC | | | Tray Rear Joint Gear A |
| 133 | NGERH0185AWZZ | AC | | | Tray Rear Joint Gear B |
| 134 | NGERH0186AWZZ | AC | | | Tray Rear Joint Gear C |
| 135 | NGERH0187AWZZ | AB | | | Tray Rear Drive Gear |
| 136 | NGERH0188AWZZ | AC | | | Tray Drive Gear |
| 137 | NGERH0189AWZZ | AB | | | Tray Front Drive Gear |
| 138 | NGERH0190AWZZ | AC | | | Tray Front Joint Gear |
| 139 | NGERH0191AWZZ | AE | | | Mode Big Gear |
| 140 | NGERH0192AWZZ | AC | | | G-Up/Down Gear A |
| 141 | NGERH0193AWZZ | AC | | | G-Up/Down Gear B |
| 142 | NGERH0194AWZZ | AB | | | Mechanism Up/Down Gear A |
| 143 | NGERH0195AWZZ | AC | | | Mechanism Up/Down Gear B |
| 144 | NGERH0196AWZZ | AC | | | Mechanism Clamp Switch Gear |
| 145 | NGERH0198AWZZ | AB | | | Reduction Gear A |
| 146 | NGERH0199AWZZ | AB | | | Reduction Gear B |
| 147 | NGERH0200AWZZ | AB | | | Reduction Gear C |
| 148 | NGERH0201AWZZ | AB | | | Reduction Gear D |
| 149 | NGERH0202AWZZ | AB | | | Up/Down Reduction Gear E |
| 150 | NGERH0203AWZZ | AB | | | Up/Down Reduction Gear F |
| 151 | NGERH0204AWZZ | AB | | | Tray Reduction Gear E |
| 152 | NSFTT0084AWFD | AD | | | Shaft,Main Base |
| 801 | LX-BZA006AWF7 | AB | | | Screw,Special |
| 802 | LX-EZ0005AWF7 | AB | | | Screw,Special |
| 803 | XEBY720P08000 | AA | | | Screw,M2x8mm |
| 804 | XEBY730P10000 | AA | | | Screw,M3x10mm |
| M1 | 92LMTR5529BASY | AD | | | Motor with Gear [Tray] |
| M2 | 92LMTR5529BASY | AD | | | Motor with Gear [Main Cam] |
| SW1 | QSW-P9003AWZZ | AD | | | Switch,Push Type [CLAMP] |
| SW2 | QSW-P9003AWZZ | AD | | | Switch,Push Type [TRAY SW1] |
| SW3 | QSW-P9003AWZZ | AD | | | Switch,Push Type [TRAY SW2] |
| SW4 | QSW-P9006AWZZ | AF | | | Switch,Push Type [DISC] |

## [12] CABINET PARTS



| NO. | PARTS CODE | PRICE RANK | NEW MARK | PART RANK | DESCRIPTION |
|---|---|---|---|---|---|
| **[12] CABINET PARTS** | | | | | |
| 201 | CCABA6570AW01 | BB | | | Front Panel Ass'y |
| 201-1 | ---------- | - | | | Front Panel |
| 201-2 | GCOVAA140AWSA | AG | | | Cover, Cassette [Tape 1] |
| 201-3 | GCOVAA141AWSA | AG | | | Cover, Cassette [Tape 2] |
| 201-4 | GDORF0127AWSA | AE | | | Holder, Cassette [Tape 1] |
| 201-5 | GDORF0128AWSA | AE | | | Holder, Cassette [Tape 2] |
| 201-6 | JKNBZA184AWSA | AE | | | Button, Disc Number |
| 201-7 | MLiF-A001AWZZ | AD | | | Damper |
| 201-8 | JKNBZA186AWSA | AE | | | Button, Operation |
| 201-9 | JKNBZA185AWSA | AE | | | Button, Function & Power |
| 201-10 | GCOVA1364AWSA | AB | | | Cover, Timer |
| 201-11 | HBDGB1007AWSA | AD | | | Badge, SHARP |
| 201-12 | MSPRDA002AWFJ | AB | | | Spring, Cassette [Tape 1] |
| 201-13 | MSPRDA003AWFJ | AB | | | Spring, Cassette [Tape 2] |
| 201-14 | HDECQA246AWSA | AD | | | Volume Knob Ring |
| 201-15 | HDECQA274AWSA | AK | | | Decoration Panel, A |
| 201-16 | HDECQA289AWSA | AK | | | Decoration Panel, B |
| 201-17 | MLOKC0014AWZZ | AC | | | Lock, Cassette [Tape 1] |
| 201-18 | MLOKC0015AWZZ | AC | | | Lock, Cassette [Tape 2] |
| 201-19 | MSPRD0196AWFJ | AB | | | Spring, Cassette Lock [Tape 1] |
| 201-20 | MSPRD0197AWFJ | AC | | | Spring, Cassette Lock [Tape 2] |
| 202 | GCAB-A036AWSA | AU | | | Top Cabinet |
| 203 | GiTASA142AWSA | AN | | | Side Panel, Left |
| 204 | GiTASA143AWSA | AN | | | Side Panel, Right |
| 205 | GiTARA376AWSA | AP | | | Rear Panel |
| 206 | GCOVAA139AWSA | AD | | | Disc Tray Cover |
| 207 | LCHSZA011AWSA | AP | | | Chassis, Changer Unit |
| 208 | 92LNBAND1318A | AA | | | Nylon Band, 80mm |
| 209 | KMECBA012AWZZ | BB | | | Tape Mechanism Ass'y |
| 210 | HDECQ1110AWSA | AF | | | Panel, Edge Light |
| 211 | QCNWN1860AWZZ | AC | | | Lug Wire |
| 212 | JKNBKA022AWSB | AL | | | Knob, Volume |
| 213 | 92LCSPR1431C | AA | | | Spring, Ring |
| 214 | LCHSMA044AWFW | AR | | | Chassis, Main |
| 215 | LBND-1011AWZZ | AA | | | Nylon Band |
| ⚠ 216 | QACCD0032AWZZ | AL | | | AC Power Supply Cord |
| ⚠ 217 | LBSHC0005AWZZ | AD | | | Bushing, AC Power Supply Cord |
| 218 | NFANP0001AWZZ | AD | | | Rotary, Fan |
| 219 | LANGK0437AWFW | AE | | | Bracket, Fan Support A |
| ⚠ 220 | 92LFSHOLD1652T | AB | | | Holder, Fuse |
| 221 | PRDARA018AWFW | AX | | | Heat Sink, Main |
| 222 | LHLDZ9024AWZZ | AD | | | Holder, FL Display |
| 223 | LANGT0042AWFW | AC | | | Bracket, PWB support |
| 224 | PCUSG0022AWZZ | AB | | | Cushion, Leg |
| 226 | ---------- | - | | | Nut (Not Replacement Item) |
| 227 | ---------- | - | | | Washer (Not Replacement Item) |
| 601 | XJBY730P10000 | AA | | | Screw, M3 X10mm |
| 602 | XEBY730P10000 | AA | | | Screw, M3 X10mm |
| 603 | LX-EZ0005AWF7 | AB | | | Screw, M2.6 X10mm |
| 604 | XEBY726P10000 | AA | | | Screw, M2.6 X10mm |
| 605 | XESY730P10000 | AA | | | Screw, M3 X10mm |
| 606 | XJSY730P08000 | AA | | | Screw, M3 X8mm |
| 607 | LX-EZ0010AWF7 | AB | | | Screw, Special |
| 608 | XHBY740P08000 | AB | | | Screw, M4 X8mm |
| 609 | XBBY720P04000 | AA | | | Screw, M2 X4mm |
| 610 | LX-JZ0010AFF7 | AB | | | Screw, M3 X10mm |
| 611 | XEBY730P12000 | AA | | | Screw, M3 X12mm |
| 612 | XHBY730P06000 | AB | | | Screw, M3 X6mm |
| 613 | LX-JZ0037AWF7 | AC | | | Screw, M3 X18mm |
| 614 | LX-JZ0044AWF8 | AB | | | Screw, M3 X10mm |
| 615 | LX-JZ0036AWF7 | AC | | | Screw, M3 X12mm |
| M901 | RMOTVA015AWZZ | AH | | | Motor, Air Cooling Fan |

## [13] SPEAKERS BOX PARTS



| NO. | PARTS CODE | PRICE RANK | NEW MARK | PART RANK | DESCRIPTION |
|---|---|---|---|---|---|
| **[13] SPEAKERS BOX PARTS** | | | | | |
| 901 | GBOXSA125AW01 | BH | | | Wooden Box Ass'y |
| 902 | CPNLSA055AW01 | AX | | | Front Panel Ass'y |
| 903 | TSPC-A635AWZZ | AC | | | Label, Specification |
| 904 | LHLDZA130AWM1 | AP | | | Super Tweeter Ass'y |
| 905 | PCUSGA020AWZZ | AB | | | Cushion, Foot |
| 906 | XEBY730P10000 | AA | | | Screw, M3 x10mm |
| 907 | XEPY740P16000 | AB | | | Screw, M4 X16mm |
| 908 | XESY730P10000 | AA | | | Screw, M3 x10mm |
| SP1,2 | RSP-ZA178AWZZ | BD | | | Woofer |
| SP3,4 | RSP-ZA179AWZZ | AR | | | Tweeter |
| **[14] ACCESSORIES/PACKING PARTS** | | | | | |
| 1 | QANTL0010AWZZ | AP | | | AM Loop Antenna |
| 2 | 92LFANT1535A | AF | | | FM Antenna |
| 3 | RRMCGA090AWSA | AQ | | | Remote Control |
| 4 | SPAKAA121AWZZ | AN | | | Packing Add., Unit, Left/right |
| 5 | SPAKAA116AWZZ | AL | | | Packing Add., Speaker, Top/Bottom |
| 6 | SPAKCA384AWZZ | AW | | | Packing Case |
| 7 | SSAKAA006AWZZ | AB | | | Polyethylene Bag, Accessories |
| 8 | SPAKP0032AWZZ | AF | | | Polyethylene Bag, Unit |
| 9 | SSAKHA077AWZZ | AD | | | Polyethylene Bag, Speaker |
| 10 | TINSZA205AWZZ | AM | | | Operation Manual |
| 11 | TLABZA267AWZZ | AB | | | Label, WMA |
| 12 | TLABZA392AWZZ | AD | | | Label, Pop Tape 1 |
| 13 | TLABZA368AWZZ | AD | | | Label, Pop Tape 2 |
| **[15] P.W.B. ASSEMBLY (Not Replacement Item)** | | | | | |
| PWB-A | 92LPWB6572MANS | - | | | Main (A1) / Power (A2) |
| PWB-B | 92LPWB6572DPLS | - | | | Display (B1) / Jack (B2) |
| PWB-C | 92LPWB6514CDUS | - | | | CD Servo |
| PWB-D | 92LPWB6274LEDS | - | | | LED |
| PWB-E | QPWBF0027AWZZ | AD | | | CD Motor (PWB Only) |
| PWB-F | QPWBF1055AWZZ | AE | | | CD Changer Motor (PWB Only) |
| PWB-G | - | - | | | Tape Mechanism (PWB Only) |
| **[16] OTHER SERVICE PARTS** | | | | | |
| | UDSKA0004AFZZ | AZ | | | CD Optical Pickup Lens Cleaner Disc |

"HOW TO ORDER REPLACEMENT PARTS"

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2. REF. No.
3. PART NO.
4. DESCRIPTION

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## Explanation of capacitors/resistors parts codes

### Capacitors

VCC ..... Ceramic type
VCK ..... Ceramic type
VCT ..... Semiconductor type
VC • • MF ..... Cylindrical type (without lead wire)
VC • • MN ..... Cylindrical type (without lead wire)
VC • • TV ..... Square type (without lead wire)
VC • • TQ ..... Square type (without lead wire)
VC • • CY ..... Square type (without lead wire)
VC • • CZ ..... Square type (without lead wire)
VC • • • • • • • • • J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

### Resistors

VRD ..... Carbon-film type
VRS ..... Carbon-film type
VRN ..... Metal-film type
VR • • MF ..... Cylindrical type (without lead wire)
VR • • MN ..... Cylindrical type (without lead wire)
VR • • TV ..... Square type (without lead wire)
VR • • TQ ..... Square type (without lead wire)
VR • • CY ..... Square type (without lead wire)
VR • • CZ ..... Square type (without lead wire)
VR • • • • • • • • • J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

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